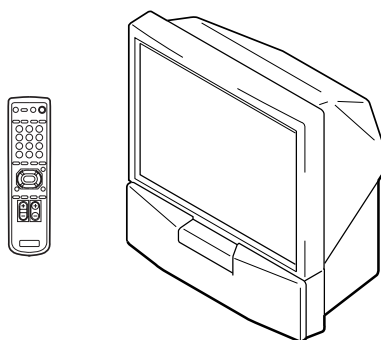


# SERVICE MANUAL

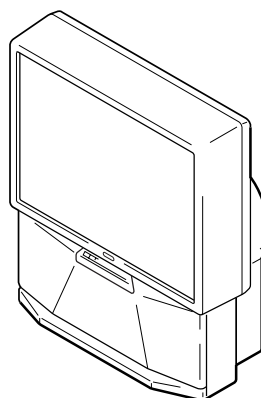
## RG-2 CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
KP-EF41HK2	RM-871	HK	SCC-N71E-A
KP-EF41ME2	RM-871	ME	SCC-N72E-A
KP-EF41MN2	RM-871	GE	SCC-N69E-A
KP-EF41SN2	RM-871	AUS	SCC-N73E-A
KP-EF48HK2	RM-871	HK	SCC-N71C-A
KP-EF48ME2	RM-871	ME	SCC-N72C-A
KP-EF48MN2	RM-871	GE	SCC-N69C-A
KP-EF48SN2	RM-871	AUS	SCC-N73C-A

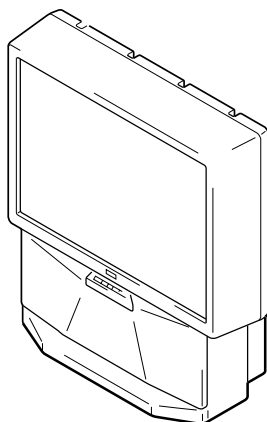
<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
KP-EF53HK2	RM-871	HK	SCC-N71B-A
KP-EF53ME2	RM-871	ME	SCC-N72B-A
KP-EF53MN2	RM-871	GE	SCC-N69B-A
KP-EF53SN2	RM-871	AUS	SCC-N73B-A



KP-EF41HK2/EF41ME2/  
EF41MN2/EF41SN2



KP-EF48HK2/EF48ME2/  
EF48MN2/EF48SN2



KP-EF53HK2/EF53ME2/  
EF53MN2/EF53SN2



\* Please file according to model size. ...

41

48

53

PROJECTION TV  
**SONY**®

## SPECIFICATIONS

### Projection system

3 picture tubes, 3 lenses, horizontal in-line system

### Picture tube

7 inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and liquidcooling system

### Projection lenses

High performance, large-diameter hybrid lens F1.0

### Screen size

41 inches (KP-EF41)  
48 inches (KP-EF48)  
53 inches (KP-EF53)

### Television system

B/G, I, D/K, M

### Color system

PAL, PAL 60, SECAM, NTSC<sup>4.43</sup>, NTSC<sup>3.58</sup>

### Channel coverage

**B/G**

VHF: E2 to E12

UHF: E21 to E69

CATV: S01 to S03, S1 to S41

**I**

UHF: B21 to B68

CATV: S01 to S03, S1 to S41

**D/K**

VHF: C1 to C12, R1 to R12

UHF: C13 to C57, R21 to R60

CATV: Z1 to Z39, S01 to S03, S1 to S41

**M**

VHF: A2 to A13

UHF: A14 to A79

CATV: A-8 to A-2, A to W+4,  
W+6 to W+84

### Stereo system

NICAM stereo B/G, I, D/K

A2 stereo (German) B/G

### Antenna

75 ohm external antenna terminal

### Audio output (Speaker)

15 W × 2

### Number of terminals

#### Video

Input: 4, Output: 1  
phono jacks, 1 Vp-p, 75 ohms

#### Audio

Input: 5, Output: 1, VARIABLE output:  
1, phono jacks, 500 mVrms

#### S video

Input: 2,  
Y: 1 Vp-p, 75 ohms, unbalanced, sync negative,  
C: 0.286 Vp-p, 75 ohms

#### Component video

Input: 1, phono jacks  
Y: 1.0 Vp-p, 75 ohms, sync negative  
C<sub>B</sub>/B-Y: 0.7 Vp-p, 75 ohms  
C<sub>R</sub>/R-Y: 0.7 Vp-p, 75 ohms  
Audio: 500 mVrms  
Output: 1, minijack

#### Headphone

#### Power requirement

110 – 240 V AC, 50/60 Hz

#### Power consumption

160 W

#### Dimensions (w/h/d)

948 × 992 × 511 mm (KP-EF41)  
1106 × 1336 × 558 mm (KP-EF48)  
1218 × 1413 × 602 mm (KP-EF53)

#### Mass

Approx. 43 kg (KP-EF41)  
Approx. 66 kg (KP-EF48)  
Approx. 70 kg (KP-EF53)

#### Supplied accessories

Remote commander RM-871 (1)  
Size R6 (AA) battery (2)

#### Optional accessory


AV rack SU-EF41 (KP-EF41),  
SU-EF4853 (KP-EF48/EF53)

Design and specifications are subject to change without

### CAUTION

SHORT CIRCUIT THE ANODE OF HTE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

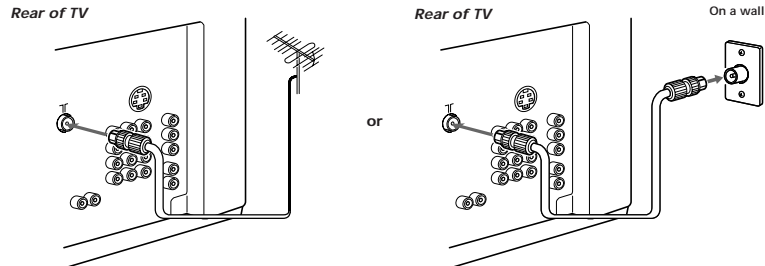
## SECTION1 GENERAL

### Getting Started

## Connections

### Connecting a VHF antenna or a combination VHF/UHF antenna — 75-ohm coaxial cable (round)

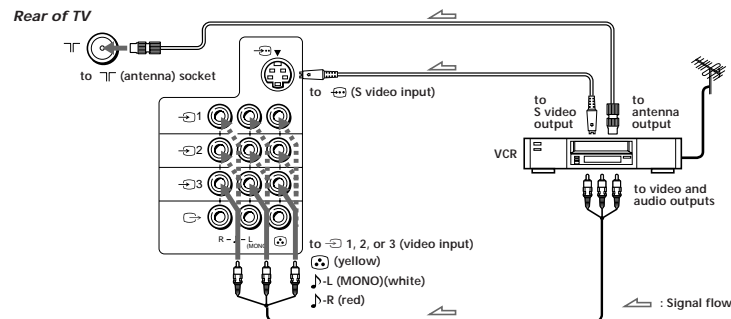
Attach an optional IEC antenna connector to the 75-ohm coaxial cable. Plug the connector into the  (antenna) socket at the rear of the TV.



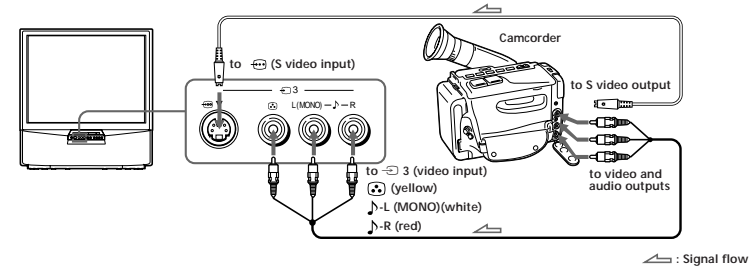
### Connecting optional equipment

You can connect optional audio/video equipment to your TV such as a VCR, multi disc player, camcorder, video game or stereo system.



#### Connecting video equipment using video input jacks




#### Front of TV



#### When connecting a monaural VCR

Connect the yellow plug to  (video input) and the black plug to  (MONO) (audio input).


#### When connecting video game equipment

Connect video game equipment to the  3 (video input) jacks at the front or the rear of your TV.


#### When connecting a VCR to the (antenna) terminal

Preset the signal output from the VCR to the program position 0.

#### When connecting video equipment to the 3 (video input) jacks at the front and the rear

Do not connect video equipment to the  3 (video input) jacks at the front and the rear of your TV simultaneously; otherwise the picture will not be displayed properly on the screen.

#### If both S Video and video signals are input simultaneously

The S video input signal is selected. To view a video input signal, disconnect the  (S video) connection.

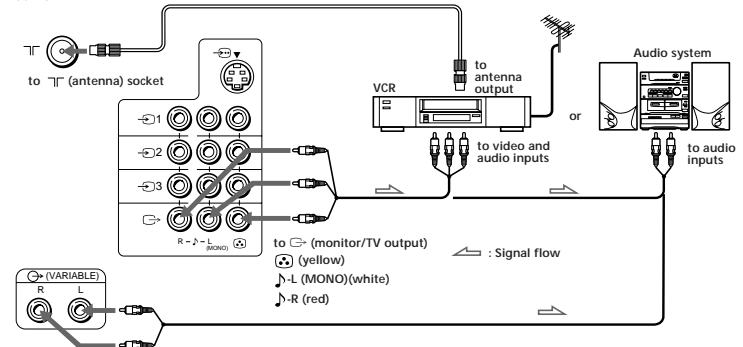
#### Note on the video input

When no signal is input, the screen becomes blue.

#### Connecting audio/video equipment using (monitor/TV output) jacks

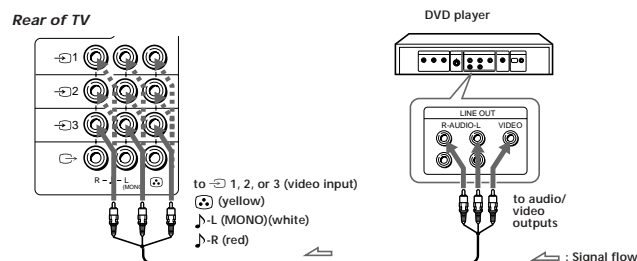
When the audio cable is connected to the  (VARIABLE) jacks, you can adjust the volume with  +/-.

#### Rear of TV

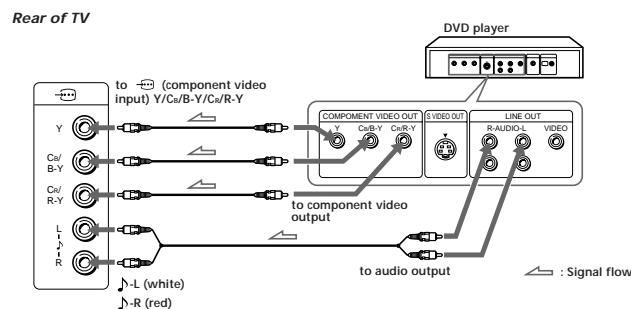




## Connecting a DVD player



## Connecting a DVD player with component video output connectors




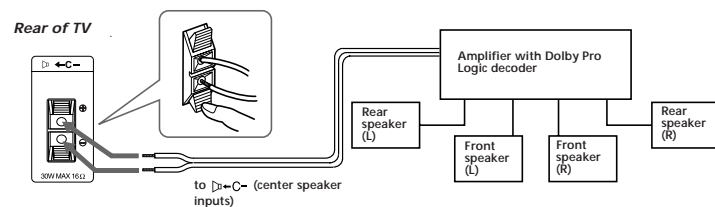
### Notes

- Since the high quality pictures on a DVD disc contain a lot of information, picture noise may appear. In this case, adjust the sharpness (SHARP) in the VIDEO ADJUST menu. (See page 20.)
- Connect your DVD player directly to your TV. Connecting the DVD player through other video equipment will cause unwanted picture noise.

## Connecting an amplifier with Dolby® Pro Logic decoder

Even though you use an amplifier with Dolby Pro Logic decoder instead of the projection TV's audio system, you can still use the projection TV's center speaker.

\* Manufactured under license from Dolby Laboratories Licensing Corporation. DOLBY, the double-D symbol  and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

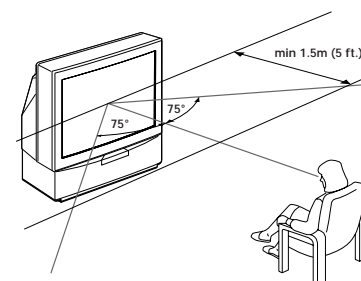


## Installing the projection TV

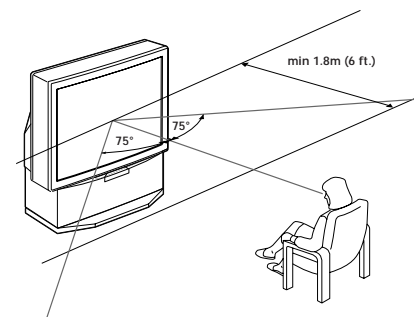
For the best picture quality, install the projection TV within the areas shown below.

### Optimum viewing area (Horizontal)

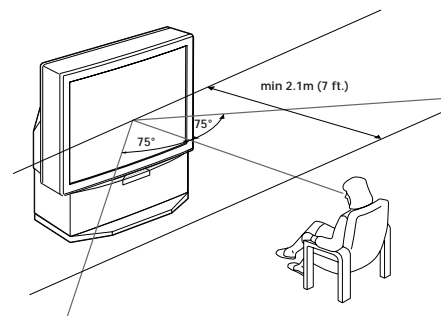
KP-EF41



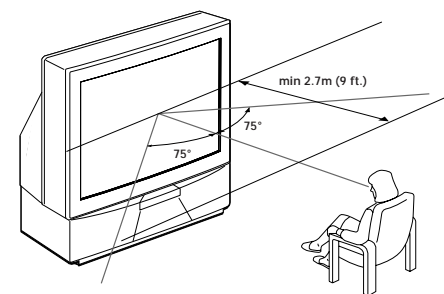
KP-EF48



KP-EF53

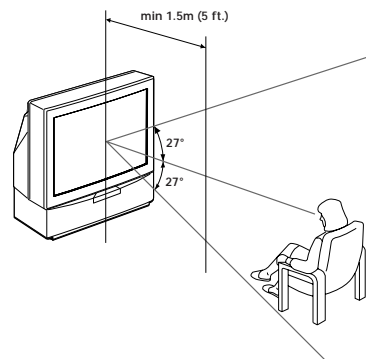


KP-EF61

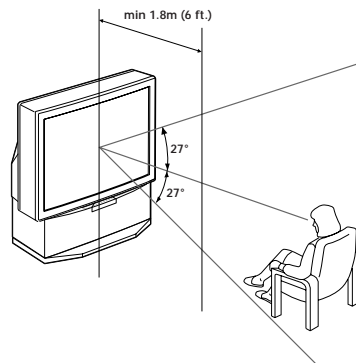


## Optimum viewing area (Vertical)

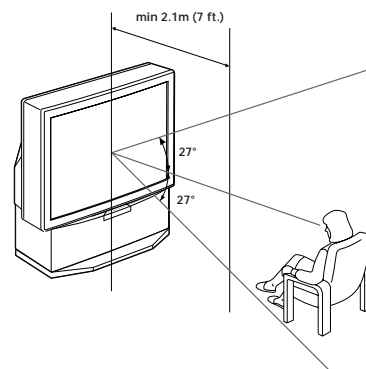
KP-EF41



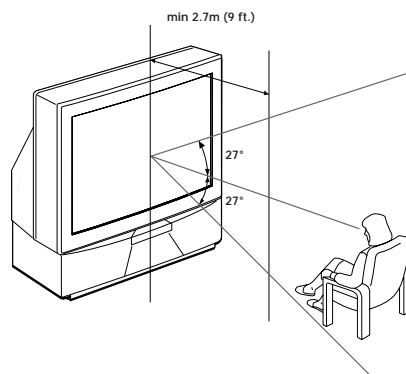
KP-EF48



KP-EF53



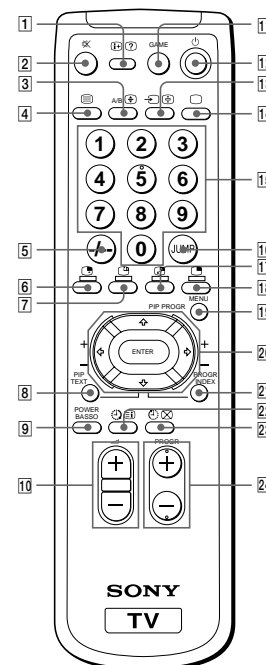
KP-EF61



## Getting to know the remote commander

Names/symbols of buttons on the remote commander are indicated in different colors to represent the available functions.

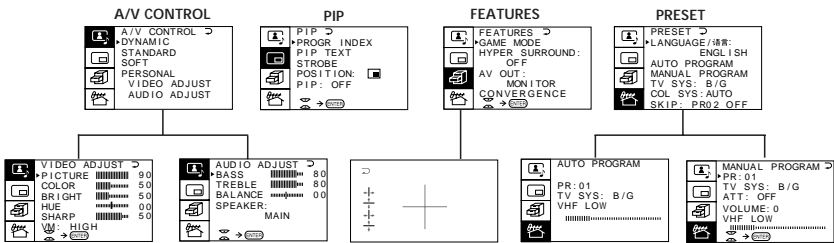
Label color	Button function
White	For general TV operations.
Green	For Teletext operations.
Yellow	For PIP and PROGRAM INDEX operations.



Symbol	Name	Refer to page
1	On-screen display button	19
2	Teletext: Reveal button	29
2	Mute on/off button	19
3	A/B	24
4	Teletext: Enlarge button	29
4	Teletext button	28
5	Double-digit entering button	18
6	Input select for PIP button	26
7	PIP freezing button	27
8	PIP TEXT	30
9	POWER BASSO	22
10	Volume control button	18
11	GAME	31
12	TV standby button	18
13	Input mode selector	19
14	Hold button	28
14	TV power on/TV mode selector	19
15	Number buttons	18
16	JUMP	19
17	Swapping picture button	27
18	PIP display button	26
19	MENU	12
20	Cursor control key	12
20	ENTER	12
21	PROGR INDEX	25
22	Wake up button (not in use for your model)	
23	Teletext: INDEX button	28
23	Sleep timer button	19
23	Teletext: Text clear button	29
24	PROGR +/- Program selectors	18

# Introducing the menu system

You can preset TV channels, adjust the picture and sound qualities, and select some settings using the on-screen menus. You can use the buttons on both the remote commander and the TV to operate the menus.



## Getting back to the previous menu (except for AUTO PROGRAM)

Press **←** or **→** to move the cursor (▶) to the first line (◀) of each menu, and press ENTER.

## Cancelling the menu screen

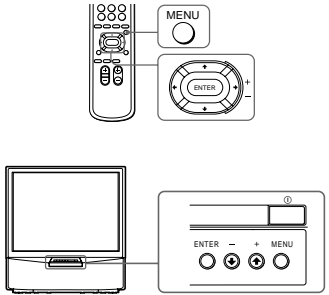
Press MENU.

### Notes (except for AUTO PROGRAM)

- When a menu is selected after pressing ENTER, the color of both the menu and the menu symbol change and the cursor (▶) appears beside the first item of the menu.
- When an item on the menu is selected after pressing ENTER, the color of the item changes.
- You can refer to the guide (▶ → ◀) at the bottom of the menus (except for the A/V CONTROL and PRESET menus) for the basic operations of the menu.
- If more than approximately 60 seconds elapse after you press a button, the menu screen disappears automatically.

# Changing the menu language

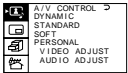
If you prefer Chinese (for MN, MG, HK and SN models)/ Arabic (for ME model) to English, you can change the menu language. You can use buttons on both the remote commander and the TV.



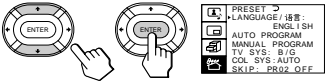
1 Press ① to turn on the TV.



2 Press MENU.



3 Press **↑** or **↓** to move the cursor (▶) to the PRESET menu (Ⓟ), and press ENTER.



4 Make sure the cursor (▶) appears beside LANGUAGE/ 语言 (اللغة), and press ENTER.

5 Press **↵/↵/↵** to select 中文 (عربي), and press ENTER.

All of the menus change to Chinese (Arabic).

6 Press MENU to return to the normal screen.

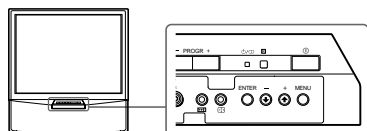


## Presetting channels

You can preset TV channels easily by storing all the receivable channels automatically. You can also preset channels manually or disable program positions (see page 16).

### Presetting channels automatically

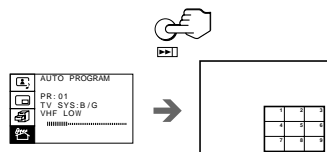
You can preset up to 100 TV channels in numerical sequence from the program position 1. You can preset channels automatically using the button on the TV or the menu.



#### 1 Press ① to turn on the TV.



#### 2 Press [ENTER].



The TV starts scanning and presetting channels automatically. When all of the receivable channels are stored, the AUTO PROGRAM menu disappears and the first nine preset TV programs appear on the nine sub screens. The nine sub screens disappear after being displayed for several seconds.

#### Note

- If you want to return to the normal screen while the nine sub screens are being displayed, you can press PROGR INDEX on the remote commander.

### To preset channels automatically using the menu

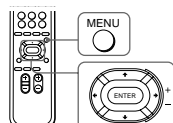
#### 1 Press MENU.

#### 2 Press ▲ or ▼ to move the cursor (▶) to the PRESET menu (PRESET), and press ENTER.

#### 3 Press ▲ or ▼ to move the cursor (▶) to AUTO PROGRAM, and press ENTER.

### Presetting channels manually

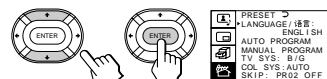
To change the program position for a channel or to receive a channel with a weak signal which you cannot receive by automatic presetting, preset the channel manually.



#### 1 Press MENU.



#### 2 Press ▲ or ▼ to move the cursor (▶) to the PRESET menu (PRESET), and press ENTER.



#### 3 Select your local TV system.

- Press ▲ or ▼ to move the cursor (▶) to TV SYS, and press ENTER.
- Press ▲/▼/▲/▼ until your local TV system appears on the menu, and press ENTER.

#### 4 Press ▲ or ▼ to move the cursor (▶) to MANUAL PROGRAM, and press ENTER.



#### 5 Select the program position to which you want to preset a channel.

- Make sure the cursor (▶) appears beside PR, and press ENTER.
- Press ▲/▼/▲/▼ until the program position you want appears on the menu, and press ENTER.

#### 6 Select the desired channel.

- Press ▲ or ▼ to move the cursor (▶) to VHF LOW (VHF Hi or UHF), and press ENTER.
- Press ▲/▼/▲/▼ until the desired channel picture appears on the TV screen, and press ENTER.

#### 7 Press MENU to return to the normal screen.

#### If the TV system is not properly selected

The picture color may be poor and/or the sound may be noisy. In this case, select the appropriate TV system.

- Press PROGR +/- or the number buttons to select the program position.
- Display the PRESET menu.
- Press ▲ or ▼ to move the cursor (▶) to TV SYS, and press ENTER.
- Press ▲/▼/▲/▼ until the appropriate TV system appears, and press ENTER.

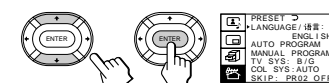
#### Notes

- The TV SYS (TV system), the ATT (attenuator), and the VOLUME (volume offset) settings are memorized for each program position.
- If you do not know your local TV system, consult your nearest Sony dealer or authorized service center.

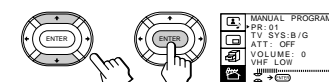
### Attenuating the signal for individual programs

If the TV signal is too strong, the picture may be distorted. You can reduce the picture distortion by attenuating the signal individually.

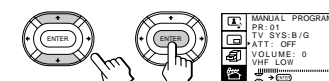
#### 1 Display the PRESET menu.



#### 2 Press ▲ or ▼ to move the cursor (▶) to MANUAL PROGRAM, and press ENTER.



#### 3 Press ▲ or ▼ to move the cursor (▶) to ATT, and press ENTER.



#### 4 Press ▲/▼/▲/▼ to select ON, and press ENTER.

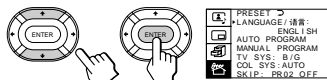
## Disabling program positions

By disabling unused or unwanted program positions, you can skip those positions when you press PROG +/-.

### 1 Press MENU.



### 2 Press $\blacktriangle$ or $\blacktriangledown$ to move the cursor ( $\blacktriangleright$ ) to the PRESET menu (PRESET), and press ENTER.



### 3 Press $\blacktriangle$ or $\blacktriangledown$ to move the cursor ( $\blacktriangleright$ ) to SKIP, and press ENTER.

### 4 Press $\blacktriangle$ or $\blacktriangledown$ until the unused or unwanted program position appears on the menu, and press ENTER.

### 5 Press $\blacktriangle$ / $\blacktriangledown$ / $\blacktriangle$ / $\blacktriangledown$ to select ON, and press ENTER.

### 6 To disable other program positions, repeat steps 4 and 5.

### 7 Press MENU to return to the normal screen.

#### To cancel the skip setting

- 1 Display the PRESET menu.
- 2 Press  $\blacktriangle$  or  $\blacktriangledown$  to move the cursor ( $\blacktriangleright$ ) to SKIP, and press ENTER.
- 3 Press  $\blacktriangle$  or  $\blacktriangledown$  until the program position you want to cancel the skip setting appears, and press ENTER.
- 4 Press  $\blacktriangle$ / $\blacktriangledown$ / $\blacktriangle$ / $\blacktriangledown$  to select OFF, and press ENTER.

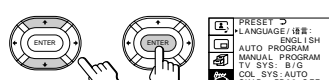
## Presetting the volume level for individual programs

If the volume of the selected program is louder than that of other programs, set the volume level.

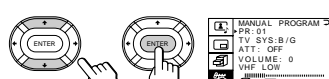
### 1 Press MENU.



### 2 Press $\blacktriangle$ or $\blacktriangledown$ to move the cursor ( $\blacktriangleright$ ) to the PRESET menu (PRESET), and press ENTER.



### 3 Press $\blacktriangle$ or $\blacktriangledown$ to move the cursor ( $\blacktriangleright$ ) to MANUAL PROGRAM, and press ENTER.



### 4 Press $\blacktriangle$ or $\blacktriangledown$ to move the cursor ( $\blacktriangleright$ ) to VOLUME, and press ENTER.

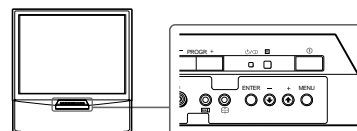
### 5 Press $\blacktriangle$ / $\blacktriangledown$ / $\blacktriangle$ / $\blacktriangledown$ to set the level, and press ENTER.

The level can be set as 0, -1, -2, ..., -6 (minimum).

## Adjusting the convergence (CONVERGENCE)

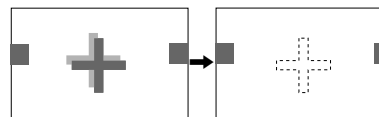
Before you use the projection TV, adjust convergence. The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs. To correct this, adjust convergence. After 20-30 minutes of turning on the power, adjust convergence.

### Adjusting the convergence automatically



#### Press $\text{AUTO}$ on the TV.

The auto convergence function works for about 30 seconds.

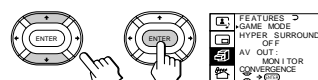


### Adjusting the convergence manually

When the auto convergence function does not work correctly with  $\text{AUTO}$ , adjust convergence by selecting CONVERGENCE of the FEATURES menu.

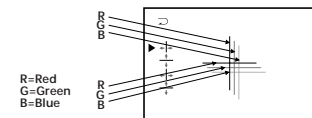
### 1 Press MENU.

### 2 Press $\blacktriangle$ or $\blacktriangledown$ to move the cursor ( $\blacktriangleright$ ) to the FEATURES menu (FEATURES), and press ENTER.

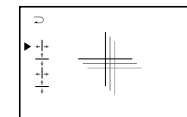


### 3 Press $\blacktriangle$ or $\blacktriangledown$ to move the cursor ( $\blacktriangleright$ ) to CONVERGENCE and press ENTER.

The CONVERGENCE adjustment screen appears.

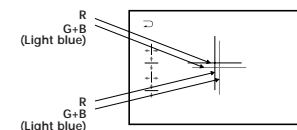


### 4 Press $\blacktriangle$ or $\blacktriangledown$ to move the cursor ( $\blacktriangleright$ ) to the symbol showing the line you want to adjust, and press ENTER.



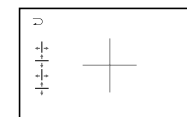
- $\blacktriangle$  : Red vertical line (left/right adjustment)
- $\blacktriangledown$  : Red horizontal line (up/down adjustment)
- $\blacktriangle$  : Blue vertical line (left/right adjustment)
- $\blacktriangledown$  : Blue horizontal line (up/down adjustment)

### 5 Press $\blacktriangle$ or $\blacktriangledown$ to move the line until it converges with the center green line, and press ENTER.



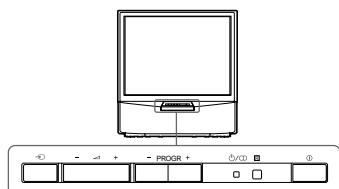
To move up/right, press  $\blacktriangle$ .  
To move down/left, press  $\blacktriangledown$ .

### 6 Repeat steps 4 and 5 to adjust the other lines until all three lines converge and are seen as a white cross.



### 7 Press MENU to return to the normal screen.

## Watching the TV



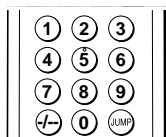
- 1 Press ① to turn on the TV.



When the TV is turned on in the standby mode, the ①/∞ indicator on the TV lights up. To turn on the TV completely, press ① on the remote commander or the TV.

- 2 Select the TV program you want to watch.

To select a program position directly  
Press the number button.

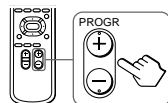


To select a two-digit program position, press “+/-” before the number buttons.  
For example: to select program position 25, press “+/-,” then “2” and “5.”

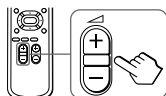


### To scan through program positions

Press PROGR +/- on the remote commander or the TV until the program position you want appears.



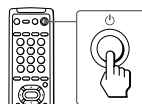
- 3 Press ∆ +/- on the remote commander or the TV to adjust the volume.



## Turning off the TV

### To turn off the TV temporarily

Press ① on the remote commander. The ①/∞ indicator lights up.



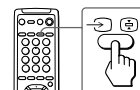
### To turn off the TV completely

Press ① on the TV.



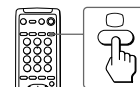
## Watching the video input

Press ⑤ on the remote commander or ⑤ on the TV.



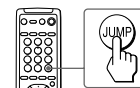
### To watch TV

Press ① on the remote commander or ① on the TV.



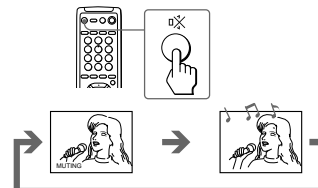
## Switching back quickly to the previous channel

Press JUMP.



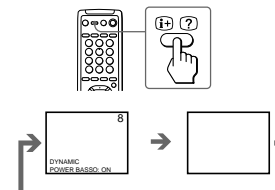
## Muting the sound

Press ④.



## Displaying the on-screen information

Press ③ ②.



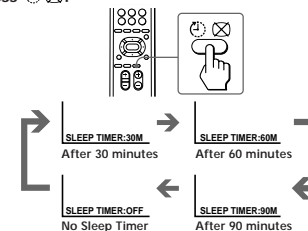
### Note

- The on-screen display shows the program position or the video mode, the picture and sound information. The on-screen display for the picture and sound information disappears after being displayed for approximately three seconds.

## Setting the Sleep Timer

You can set the TV to turn off automatically after the period of time you want.

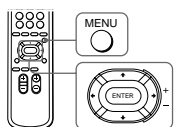
Press ⑥ ⑦.



To cancel the Sleep Timer, press ⑥ ⑦ repeatedly until “SLEEP TIMER: OFF” appears, or turn the TV off.

# Adjusting the picture and sound

## Selecting the picture and sound modes

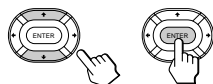


1 Press MENU.



2 Make sure the cursor (▶) appears in the A/V CONTROL menu (A), and press ENTER.

3 Press ▲ or ▼ to move the cursor (▶) to DYNAMIC, STANDARD, SOFT, or PERSONAL, and press ENTER.



Select	To
DYNAMIC	Receive high contrast picture with powerful sound.
STANDARD	Receive normal contrast picture with medium listening sound.
SOFT	Receive mild picture with soft sound.
PERSONAL	Receive the last picture and sound settings that are adjusted using VIDEO ADJUST and AUDIO ADJUST.

4 Press MENU to return to the normal screen.



## Adjusting the picture settings (VIDEO ADJUST)

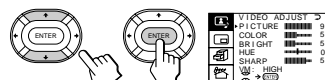
You can adjust the picture settings to suit your taste with the VIDEO ADJUST option. The adjusted settings are stored in the PERSONAL option.

1 Press MENU.



2 Make sure the cursor (▶) appears in the A/V CONTROL menu (A), and press ENTER.

3 Press ▲ or ▼ to move the cursor (▶) to VIDEO ADJUST, and press ENTER.



4 Press ▲ or ▼ to move the cursor (▶) to the item you want to adjust, and press ENTER.

5 Press ▲/▼/◀/▶ to adjust the selected item, and press ENTER.

For details on each item, see "Description of adjustable items" below.

6 To adjust other items, repeat steps 4 and 5.

7 Press MENU to return to the normal screen.

### Description of adjustable items

Item	Press ▲/▼	Press ▲/▼
PICTURE	Decrease picture contrast.	Increase picture contrast.
COLOR	Decrease color intensity.	Increase color intensity.
BRIGHT	Darken the picture.	Brighten the picture.
HUE	Make picture tones become reddish.	Make picture tones become greenish.
SHARP	Soften the picture.	Sharpen the picture.
VM	Decrease emphasis on picture edges.	Increase emphasis on picture edges.

#### Note

- You can adjust HUE for the NTSC color system only. (Note that you can't adjust the NTSC color system of the component inputs.)

### If the picture is slightly snowy

You may try to improve the picture by changing the VM setting as described below:

- Display the VIDEO ADJUST menu.
- Press ▲ or ▼ to move the cursor (▶) to VM, and press ENTER.
- Press ▲/▼/◀/▶ to select LOW, and press ENTER.

**If the picture color is abnormal when receiving programs through the ㊦ (antenna) terminal**  
Change the color system or the TV system from the PRESET menu as described below until the color becomes normal.

- Display the PRESET menu.
- Press ▲ or ▼ to move the cursor (▶) to COL SYS or TV SYS, and press ENTER.
- Press ▲/▼/◀/▶ to change the color system or the TV system until the color becomes normal, and press ENTER.

#### Note

- Normally set the color system (COL SYS) to AUTO.

## Adjusting the sound settings (AUDIO ADJUST)

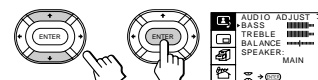
You can adjust the sound settings to suit your taste with the AUDIO ADJUST option. The adjusted settings are stored in the PERSONAL option.

1 Press MENU.



2 Make sure the cursor (▶) appears in the A/V CONTROL menu (A), and press ENTER.

3 Press ▲ or ▼ to move the cursor (▶) to AUDIO ADJUST, and press ENTER.



4 Press ▲ or ▼ to move the cursor (▶) to the item you want to adjust, and press ENTER.

5 Press ▲/▼/◀/▶ to adjust the selected item, and press ENTER.

For details on each item, see "Description of adjustable items" below.

6 To adjust other items, repeat steps 4 and 5.

7 Press MENU to return to the normal screen.

### Description of adjustable items

Item	Press ▲/▼	Press ▲/▼
BASS	Decrease the bass sound.	Increase the bass sound.
TREBLE	Decrease the treble sound.	Increase the treble sound.
BALANCE	Increase the left speaker's volume	Increase the right speaker's volume.

### If the sound is distorted or noisy when

receiving programs through the ㊦ (antenna) terminal

Change the TV system from the PRESET menu as described below until the sound becomes normal.

- Display the PRESET menu.
- Press ▲ or ▼ to move the cursor (▶) to TV SYS, and press ENTER.
- Press ▲/▼/◀/▶ to change the TV system until the sound becomes normal, and press ENTER.

## Setting the speaker

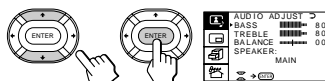
If you connect a Dolby Pro Logic-compatible amplifier to the center speaker terminals, you can use the projection TV speakers as center speakers.

### 1 Press MENU.

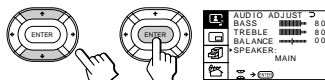


### 2 Make sure the cursor (▶) appears in the A/V CONTROL menu (⏏), and press ENTER.

### 3 Press ▲ or ▼ to move the cursor (▶) to AUDIO ADJUST, and press ENTER.



### 4 Press ▲ or ▼ to move the cursor (▶) to SPEAKER, and press ENTER.



### 5 Press ▲/▼/▶/◀ to set the speaker, and press ENTER.

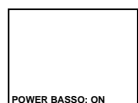
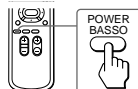
To use the projection TV speakers as center speakers, select CENTER IN.  
To listen to the sound from a projection TV, select MAIN.

### 6 Press MENU to return to the normal screen.

## Listening with dynamic sound (POWER BASSO)

The POWER BASSO sound mode enables you to enjoy a high quality sound with the best combination of all types of sound. It reproduces dynamic and clear sounds and emphasizes low and high audio effects as well.

Press POWER BASSO.



The sound mode of the TV program or the video input changes to the POWER BASSO sound.

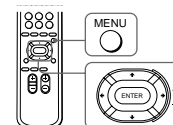
To cancel the POWER BASSO mode  
Press POWER BASSO again.

#### Note

- You can select any of the surround sound modes (HYPER SURROUND) to cancel the POWER BASSO sound.

## Listening to the surround sound (HYPER SURROUND)

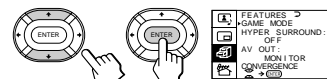
The HYPER SURROUND feature enables you to enjoy a surround sound effect that is like being in a concert hall or movie theater when receiving stereo signals.



### 1 Press MENU.

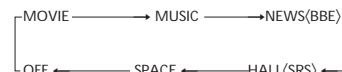


### 2 Press ▲ or ▼ to move the cursor (▶) to the FEATURES menu (⏏), and press ENTER.



### 3 Press ▲ or ▼ to move the cursor (▶) to HYPER SURROUND, and press ENTER.

### 4 Press ▲/▼/▶/◀ to select MOVIE, MUSIC, NEWS(BBE), HALL(SRS) or SPACE, and press ENTER.



For details on each item, see "Description of adjustable items" below.

### 5 Press MENU to return to the normal screen.

#### Description of adjustable items

Select	To
MOVIE	Listen to a sound that emphasizes the bass audio effect of movie theater.
MUSIC	Listen to a dynamic and clear sound that emphasizes the low and high audio sounds.
NEWS(BBE)	Listen to a sound that emphasizes voice.
HALL(SRS)	Listen to a sound that spreads out over a large area, giving the feeling of being at a concert hall.
SPACE	Listen to a monaural sound that gives a stereo-like effect.
OFF	Turn off the surround sound.

#### Notes

- The BBE is manufactured by Sony Corporation under license from BBE Sound, Inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. The word "BBE" and the BBE symbol are the trademarks of BBE Sound, Inc.
- The (●) SRS (SOUND RETRIEVAL SYSTEM) is manufactured by Sony Corporation under license from SRS Labs, Inc. It is covered by U.S. Patent No. 4,748,669. The word "SRS" and the SRS symbol (●) are registered trademarks of SRS Labs, Inc.

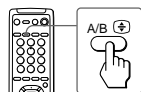


## Selecting a stereo or bilingual program

You can enjoy stereo sound or bilingual programs of NICAM and A2 (German) stereo systems.

Press A/B repeatedly until you receive the sound you want.

The on-screen display changes corresponding to the selected sound and the MONO/STEREO indicator also lights up.



### When receiving a NICAM program

Broadcasting	On-screen display (Selected sound)
NICAM stereo	NICAM (Stereo sound) → MONO (Regular sound)
NICAM bilingual	NICAM MAIN (Main sound) → NICAM SUB (Sub sound) → MONO (Regular sound)
NICAM monaural	NICAM MAIN (Main sound) → MONO (Regular sound)

### When receiving an A2 (German) program

Broadcasting	On-screen display (Selected sound)
A2 (German) stereo	MONO (Regular sound) → STEREO (Stereo sound)
A2 (German) bilingual	MAIN (Main sound) → SUB (Sub sound)

### Receiving area for NICAM and A2 (German) programs

System	Receiving area
NICAM	Hong Kong, Singapore, New Zealand, Malaysia, Thailand, etc.
A2 (German)	Australia, Malaysia, Thailand, etc.

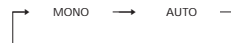
#### Notes

- If the signal is very weak, the sound becomes monaural.
- If the stereo sound is noisy when receiving a NICAM program, select "MONO." The sound becomes monaural, but the noise is reduced.

If the sound is distorted or noisy when receiving a monaural program through the antenna terminal

Press A/B repeatedly until "MONO" appears on the screen while the MONO/STEREO indicator is off.

To cancel the monaural sound setting, press A/B again until "AUTO" appears on the screen.



#### Notes

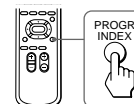
- The "MONO" or "AUTO" setting memorized for each program position.
- You cannot receive stereo broadcast signal when the TV is in the "MONO" setting.

## Viewing multiple programs at the same time (PROGRAM INDEX)

The PROGRAM INDEX feature allows you to view all the preset TV programs and the video inputs on the nine sub screens at the same time.

You can view multiple programs on the nine sub screens using the button on the remote commander or the menu.

Press PROGRAM INDEX.



The first nine preset programs appear on the nine sub screens.

>>> 1	2	3
4	5	6
7	8	9

To view the next or the previous nine preset programs on the nine sub screens

Press PROGRAM +/- on the remote commander or the TV.

>>> 10	11	12
V1	V2	V3
1	2	3

↔

>>> 1	2	3
4	5	6
7	8	9

To select the program you want to watch directly after viewing multiple programs

Press the number buttons, 0-9, or press

▲/▼/▶/◀ to move the cursor (>>>) to the screen of the program you want to watch, and press ENTER.

To restore the normal screen

Press PROGRAM INDEX again or ENTER.

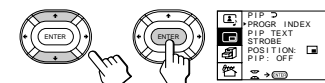
You can also select PROGRAM INDEX or PIP : OFF from the PIP menu, and press ENTER to restore the normal screen.

To view multiple programs on the nine sub screens using the menu

1 Press MENU.



2 Press ▲ or ▼ to move the cursor (▶) to the PIP menu (PIP), and press ENTER.



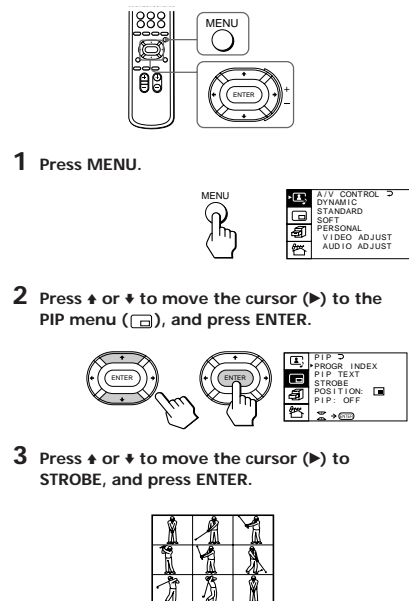
3 Make sure the cursor (▶) appears beside PROGRAM INDEX, and press ENTER.

#### Notes

- You can change the position of the nine sub screens using the PIP menu (see "Changing the position of the PIP screen" on page 27).
- You can hear the sound of the main screen when viewing multiple programs on the nine sub screens.
- You can use the number buttons on the remote commander to change the program position of the main screen when viewing multiple programs on the nine sub screens.

## Displaying frame-by-frame pictures (STROBE)

You can watch a slow motion movement of the main screen picture which is displayed frame-by-frame on the nine sub screens.

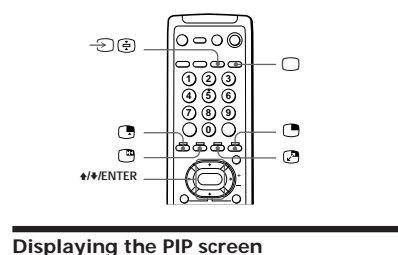


**To restore the normal screen**  
Select STROBE again or PIP : OFF from the PIP menu, and press ENTER.  
You can also press , , , , or to restore the normal screen.

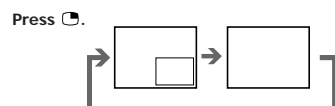
- Notes**
- You can change the position of the nine sub screens using the PIP menu (see "Changing the position of the PIP screen" on page 27).
  - You can hear the normal sound when using the STROBE feature.

## Using the Picture-in-Picture (PIP) features

With the Picture-in-Picture (PIP) feature, you can display a sub screen within the main picture of different TV programs or video inputs.



You can display the PIP screen using the button on the remote commander or the menu.



### Selecting a TV program or video input in the PIP screen

To select a TV program, press or , and press ENTER.

To select a video input, press on the remote commander or on the TV.

To display the PIP screen using the menu

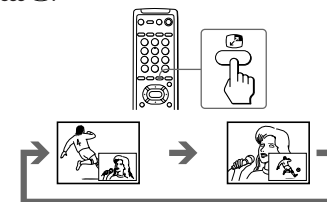
- Press MENU.
- Press or to move the cursor () to the PIP menu (), and press ENTER.
- Press or to move the cursor () to PIP, and press ENTER.
- Press , , , or to select ON, and press ENTER.
- Press MENU to return to the normal screen.

### Changing the position of the PIP screen

- Press MENU.
- Press or to move the cursor () to the PIP menu (), and press ENTER.
- Press or to move the cursor () to POSITION, and press ENTER.
- Press , , , or to select the position you want, and press ENTER.
- Press MENU to return to the normal screen.

### Swapping pictures between the main and PIP screens

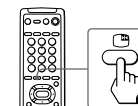
Press .



### Freezing the PIP screen

Press .

The PIP screen will freeze.

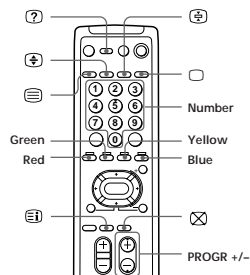


**To restore the normal screen**  
Press again.


- Notes**
- When you display a video input on the PIP screen at any speed other than the normal one, the picture may be disrupted, depending on the VCR.
  - If you display different color systems on the main screen and the PIP screen, the size of the PIP screen may be different and the PIP picture may be disrupted. This does not indicate a malfunction of the TV.

## Viewing Teletext

TV stations broadcast an information service called Teletext via a TV channel. Teletext service allows you to receive various information such as weather forecasts or news at any time.



### Displaying Teletext

- 1 Select a TV channel that carries the Teletext broadcast you want to watch.
- 2 Press  to display the Teletext. A Teletext page (normally the index page) is displayed. If there is no Teletext broadcast, "100" is displayed at the top left corner of the screen.

#### To turn off Teletext

Press .


### Superimposing a Teletext page on the TV picture

Press .





Each time you press , the screen changes as follows:



### Checking the contents of a Teletext service (INDEX)

Press  to display an overview of the Teletext contents and page numbers.

### Using FASTEXT

This feature allows you to quickly access a Teletext page that uses FASTEXT. When a FASTEXT program is broadcasted, the colored menus appear at the bottom of the screen. The colors of the menus correspond to the red () , green () , yellow () , and blue () colored-coded buttons on the remote commander.

#### To access a FASTEXT menu

Press the color-coded button on the remote commander that corresponds to the colored menu which appears at the bottom of the screen. The menu page appears on the screen after several seconds.

### Selecting a Teletext page

Press the number buttons to enter the three-digit page number of the Teletext page you want.

If you make a mistake, re-enter the correct page number.

#### To access the next or previous page

Press **PROGR +/-**.

You can also access a Teletext page of any page numbers that appear in the colored column at the bottom of the screen using the corresponding color-coded button on the remote commander.



### Holding a Teletext page (HOLD)

A Teletext page may consist of several subpages. You can stop the page scrolling in order to read the text at your own pace.

Press .

The HOLD symbol "" appears at the top left corner of the screen.

#### To resume normal Teletext operation


Press  again or .

### Revealing concealed information (REVEAL)

The REVEAL option lets you disclose concealed information, such as an answer to a quiz that you find on some of the Teletext pages.


Press .

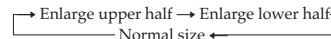
#### To conceal the information

Press  again.



### Enlarging the Teletext display (ENLARGE)

Press .

Each time you press , the Teletext display changes as follows:



### Waiting for a Teletext page while watching a TV program (TEXT CLEAR)

- 1 Enter the page number of the Teletext that you want to refer to, then press .
- 2 When the page number is displayed on the screen, press  to turn on the Teletext.

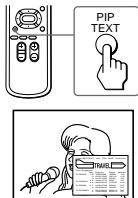
## Displaying Teletext on the PIP screen (PIP TEXT)

The PIP TEXT feature enables you to display a Teletext page on the PIP screen while watching a TV program.

You can display the Teletext on the PIP screen using the button on the remote commander or the menu.

**1 Select a TV channel that carries the Teletext broadcast you want to watch.**

**2 Press PIP TEXT.**

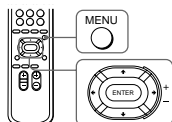


### To restore the normal screen

Press PIP TEXT again, or press  $\square$ ,  $\rightarrow$  (with a circle and a dot), or PROGR +/-.

You can also select PIP : OFF from the PIP menu, and press ENTER to restore the normal screen.

**To display a Teletext page on the PIP screen using the menu**



**1 Press MENU.**



**2 Press  $\uparrow$  or  $\downarrow$  to move the cursor ( $\blacktriangleright$ ) to the PIP menu ( $\square$ ), and press ENTER.**



**3 Press  $\uparrow$  or  $\downarrow$  to move the cursor ( $\blacktriangleright$ ) to PIP TEXT, and press ENTER.**

**4 Press  $\leftarrow/\rightarrow/\leftarrow/\rightarrow$  to select the Teletext page you want to watch.**

### Notes

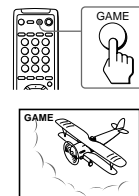
- You can also use the color-coded buttons (see page 28) while displaying a Teletext page on the PIP screen.
- To select a Teletext page on the PIP screen, press  $\leftarrow/\rightarrow/\leftarrow/\rightarrow$  once only. If you press  $\leftarrow/\rightarrow/\leftarrow/\rightarrow$  continuously, the Teletext page numbers also change continuously at a fast speed.
- You can change the position of a Teletext page on the PIP screen using the PIP menu (see "Changing the position of the PIP screen" on page 27).

## Viewing a video game screen (GAME MODE)

The GAME MODE feature optimizes the video game screen by giving a soft picture and dynamic sound effect.

You can display a video game screen using the button on the remote commander or the menu.

**Press GAME.**



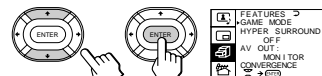
The picture and sound change to the mode that is suitable for video games.

**To view a video game screen using the menu**

**1 Press MENU.**



**2 Press  $\uparrow$  or  $\downarrow$  to move the cursor ( $\blacktriangleright$ ) to the FEATURES menu ( $\square$ ), and press ENTER.**



**3 Make sure the cursor ( $\blacktriangleright$ ) appears beside GAME MODE, and press ENTER.**

**To restore the normal picture and sound modes**



Press  $\square$ ,  $\rightarrow$  (with a circle and a dot), or PROGR +/-.

### Notes

- If you press the GAME button when the TV is in the standby mode, the TV turns on automatically and the picture and sound change to the mode that is suitable for video games.
- To display a video game screen, connect the video game equipment to the  $\rightarrow$  3 (video input) jacks at the front or the rear of the TV.

## Customizing the TV

### Using the AV OUT (advanced rec-out) terminal

You can select the output signal from the  (monitor/TV output) jacks at the rear of the TV. However, the signals of the PROGRAM INDEX, STROBE, PIP modes, the signals from the  (component video input) jacks, and the Teletext broadcast cannot be output even though MONITOR is selected.

#### 1 Press MENU.



#### 2 Press or to move the cursor (▶) to the FEATURES menu (FEATURES), and press ENTER.





#### 3 Press or to move the cursor (▶) to AV OUT, and press ENTER.

#### 4 Press /// to select the output signal, and press ENTER.

Select	To
TV	Output the signal of the TV broadcast.
MONITOR	Output the signal of the picture you are watching as a main picture.

#### Notes

- Do not change the channel while recording with a VCR through the  (monitor/TV output) jacks. If you change the channel, it also changes the channel you are recording.
- When the signals from the  (component video input) jacks are displayed on the main screen, the signals can't be output even though MONITOR is selected.

## Additional Information

## Troubleshooting

If you have any problems, read this manual again and check the countermeasure for each of the symptoms listed below.  
If the problem persists, contact your nearest Sony dealer or authorized service center.

### Snowy picture Noisy sound



- Check the antenna.
- Check the antenna connection on the TV and on the wall.
- Check the TV system (TV SYS) setting.
- Check the ATT (attenuator) setting.

### Dotted lines or stripes



- This may be caused by local interference (e.g. cars, neon signs, hair dryers, etc.). Adjust the antenna for minimum interference.

### Double images or "ghosts"



- This may be caused by reflections from nearby mountains or buildings. A highly directional antenna may improve the picture.



### Good picture Noisy sound



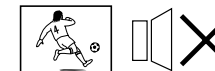
- Check the TV system (TV SYS) setting.




### No picture No sound



- Press .
- Press  to turn off the TV for about five seconds and then turn it on again.
- Check the power cord connection.
- Check the antenna connection.
- Check the VCR connections.

### Good picture No sound




- Press .
- If "CENTER IN" is displayed on the screen, select "SPEAKER: MAIN" of the AUDIO ADJUST menu.
- Press .
- Press A/B .

### No color



- Adjust the COLOR level in the VIDEO ADJUST menu of the PERSONAL option.
- Check the color system (COL SYS) setting.

### TV cannot receive stereo broadcast signal

- Press A/B  until "AUTO" appears on the screen.

### TV cabinet creaks

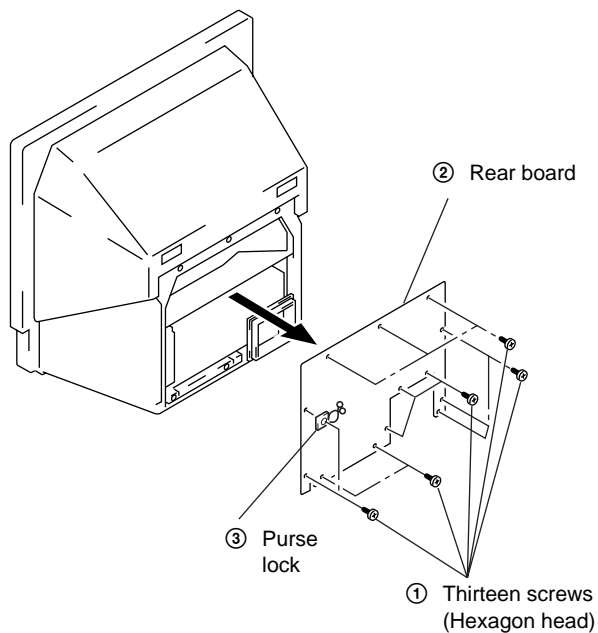
- Even if the picture or the sound is normal, changes in the room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.



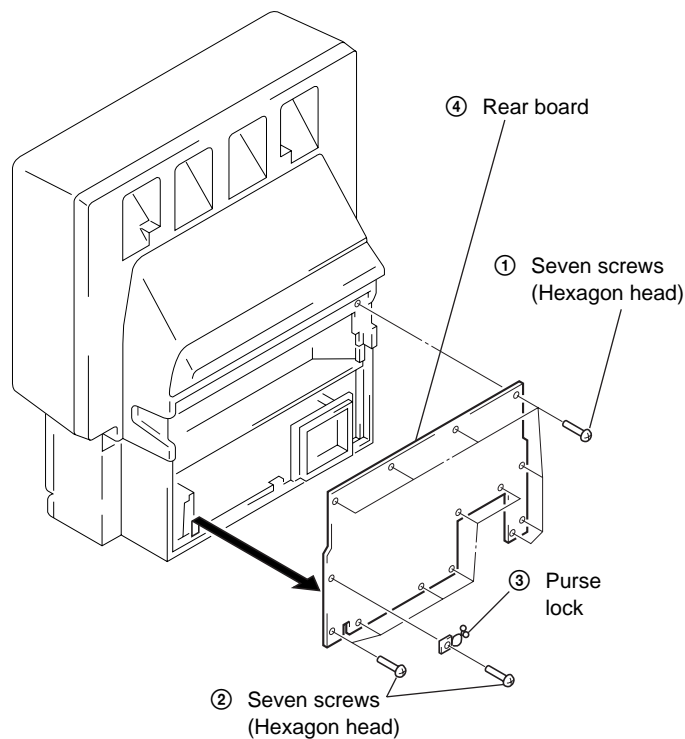
## SECTION 2 DISASSEMBLY

### 2-1. REAR BOARD REMOVAL

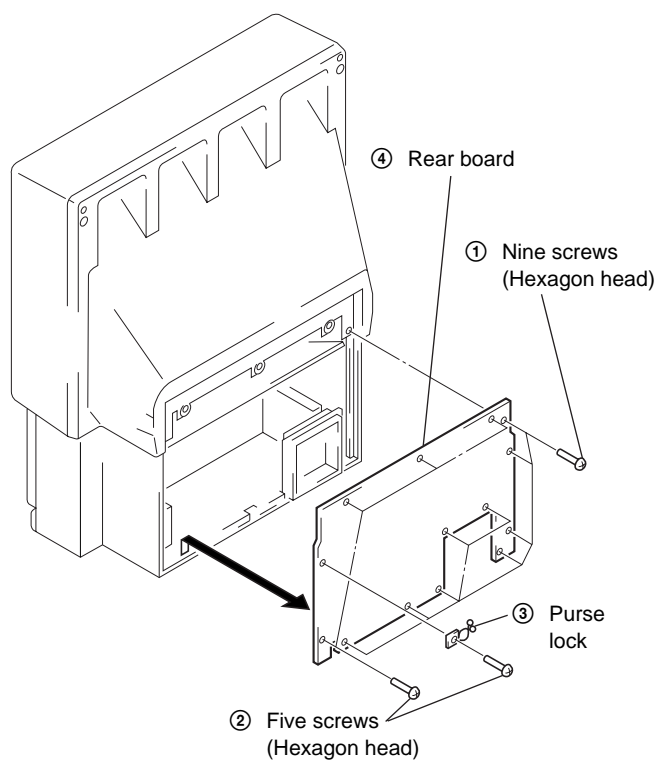
#### • KP-EF41



#### • KP-EF53

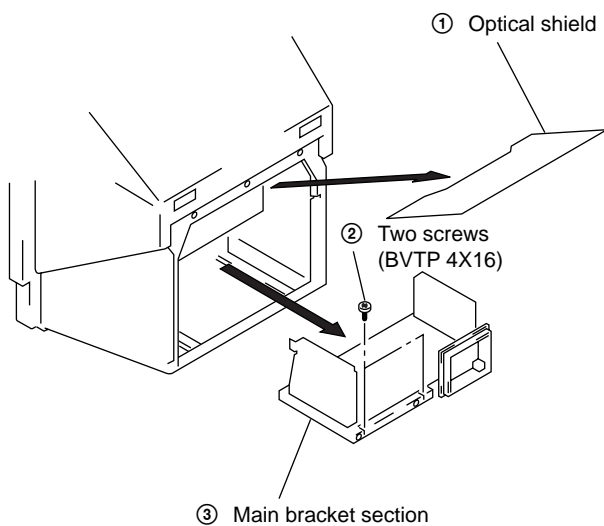


#### • KP-EF48

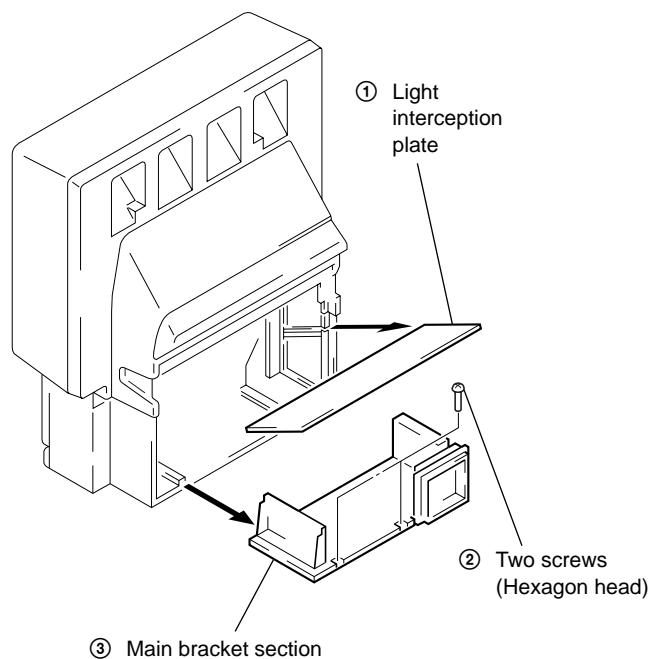


## 2-2. MAIN BRACKET SECTION REMOVAL

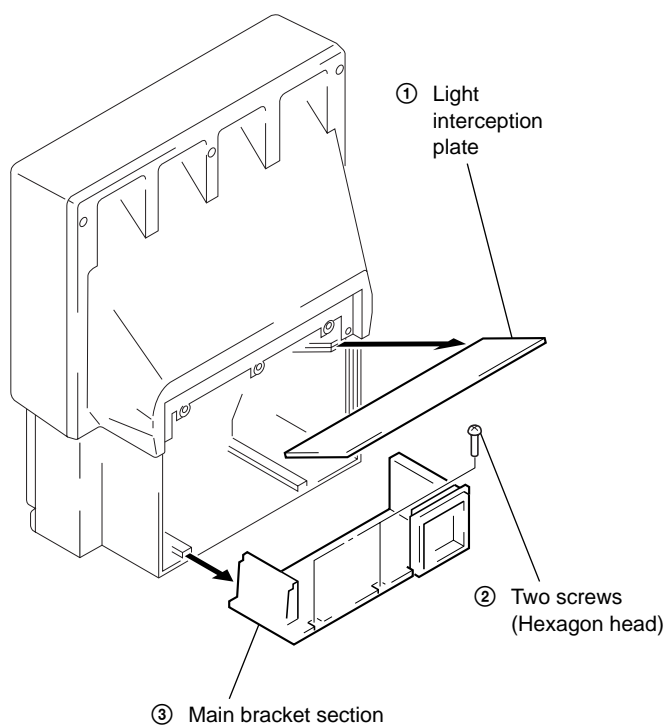
### • KP-EF41



### • KP-EF53



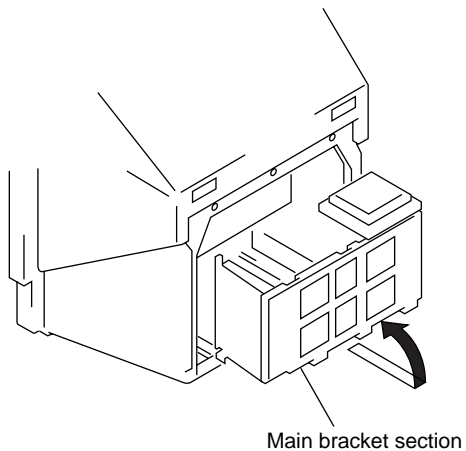
### • KP-EF48



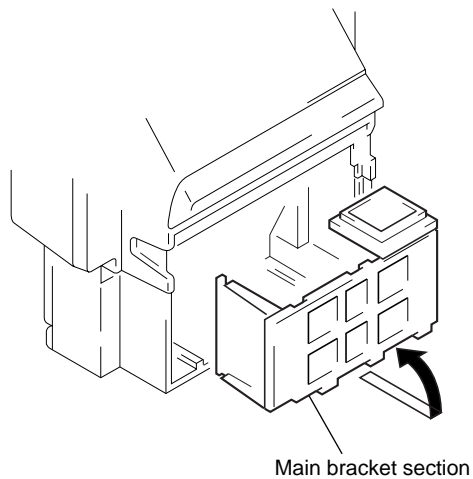


## 2-3. SERVICE POSITION

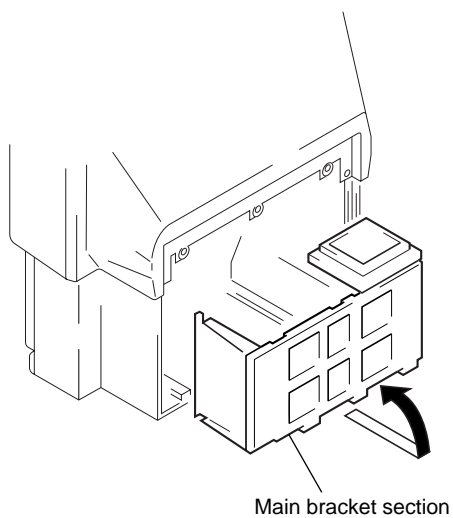
### • KP-EF41



### • KP-EF53

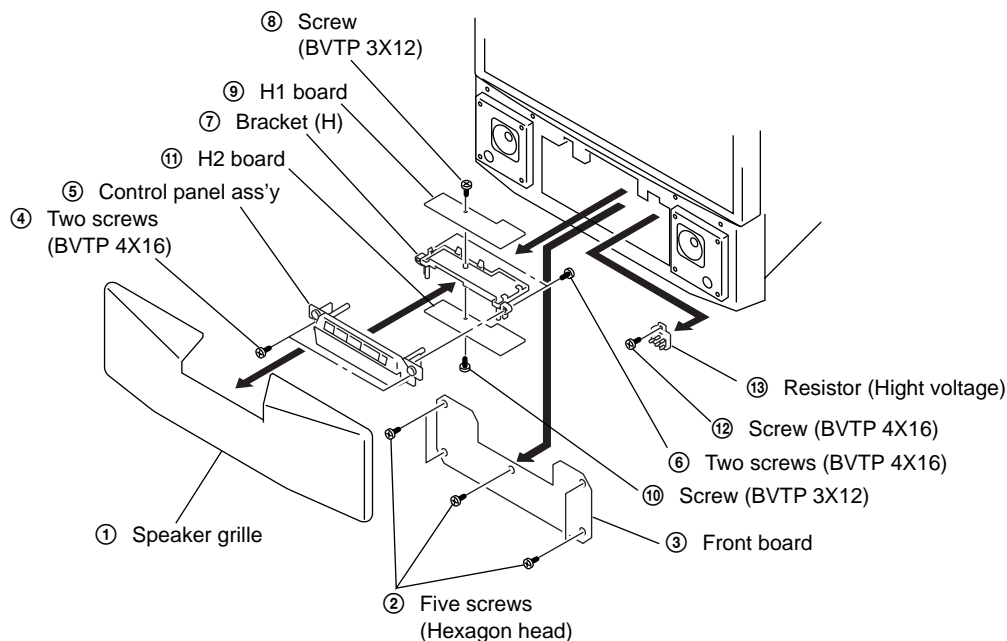


### • KP-EF48

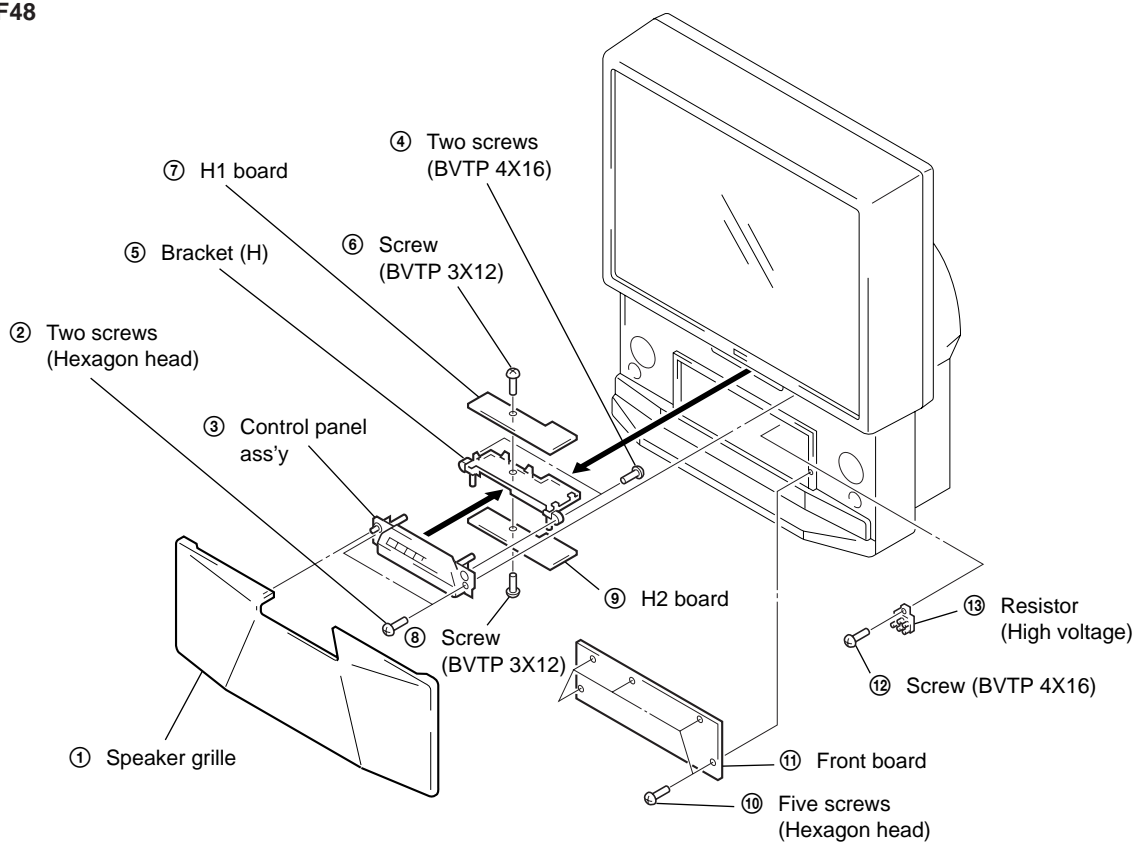


## 2-4. H1 BOARD, H2 BOARD AND RESISTOR (HIGH VOLTAGE) REMOVAL

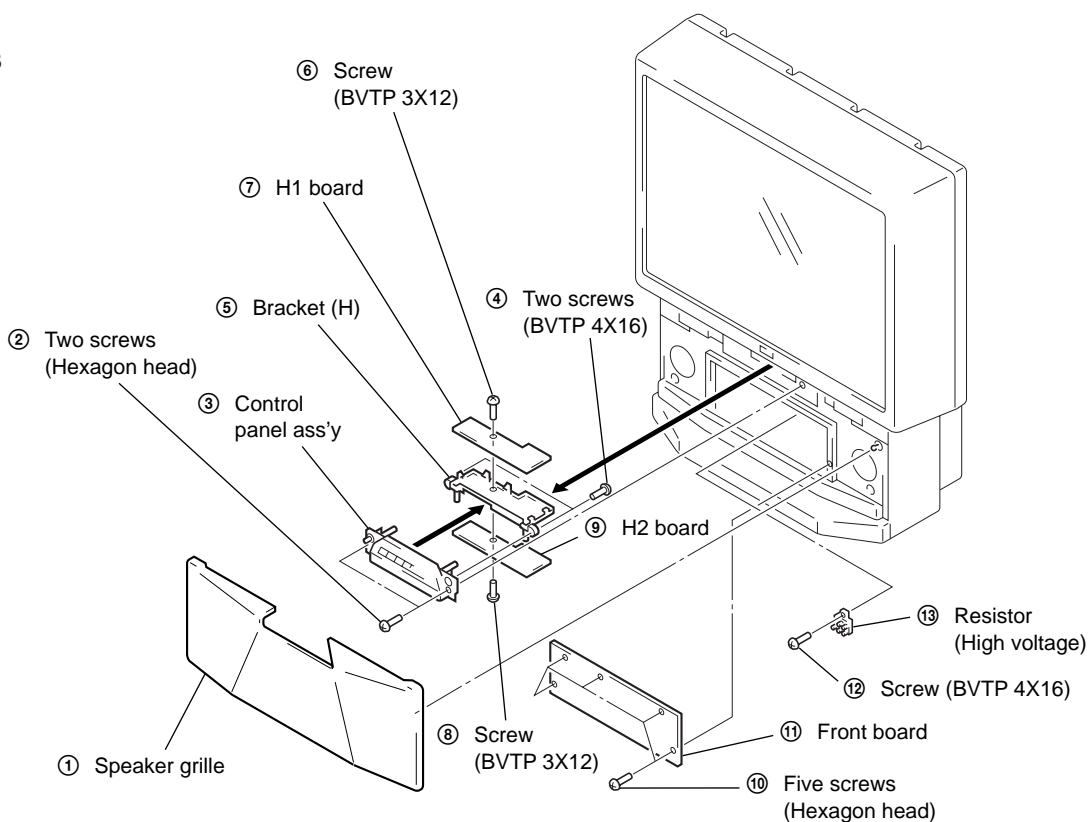
### • KP-EF41



### • KP-EF48

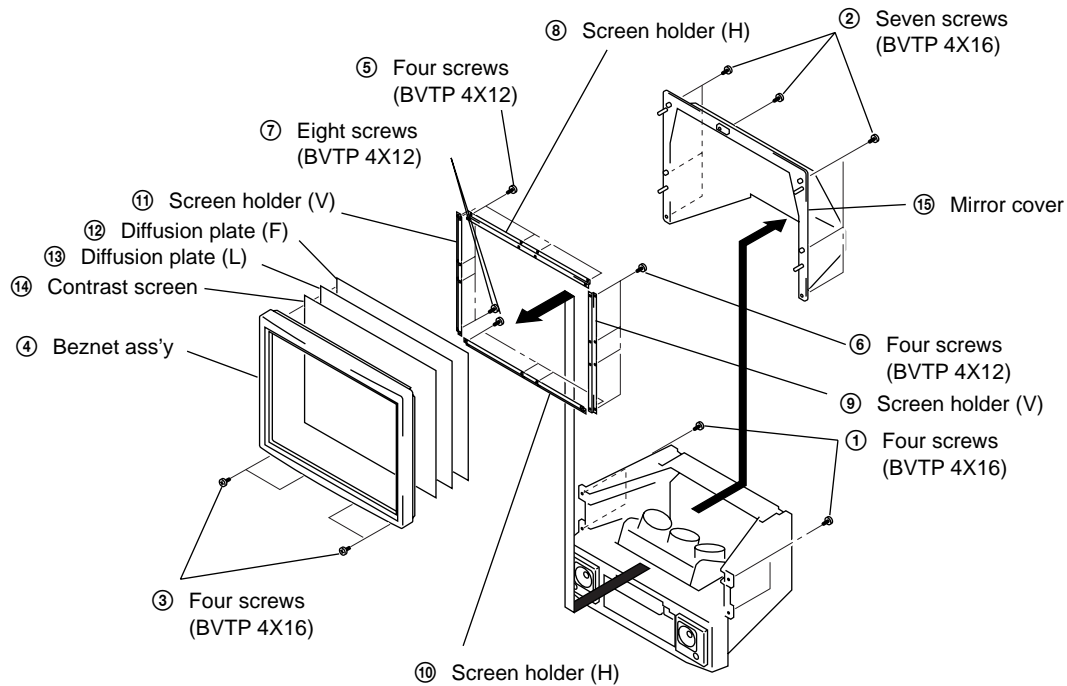


• KP-EF53

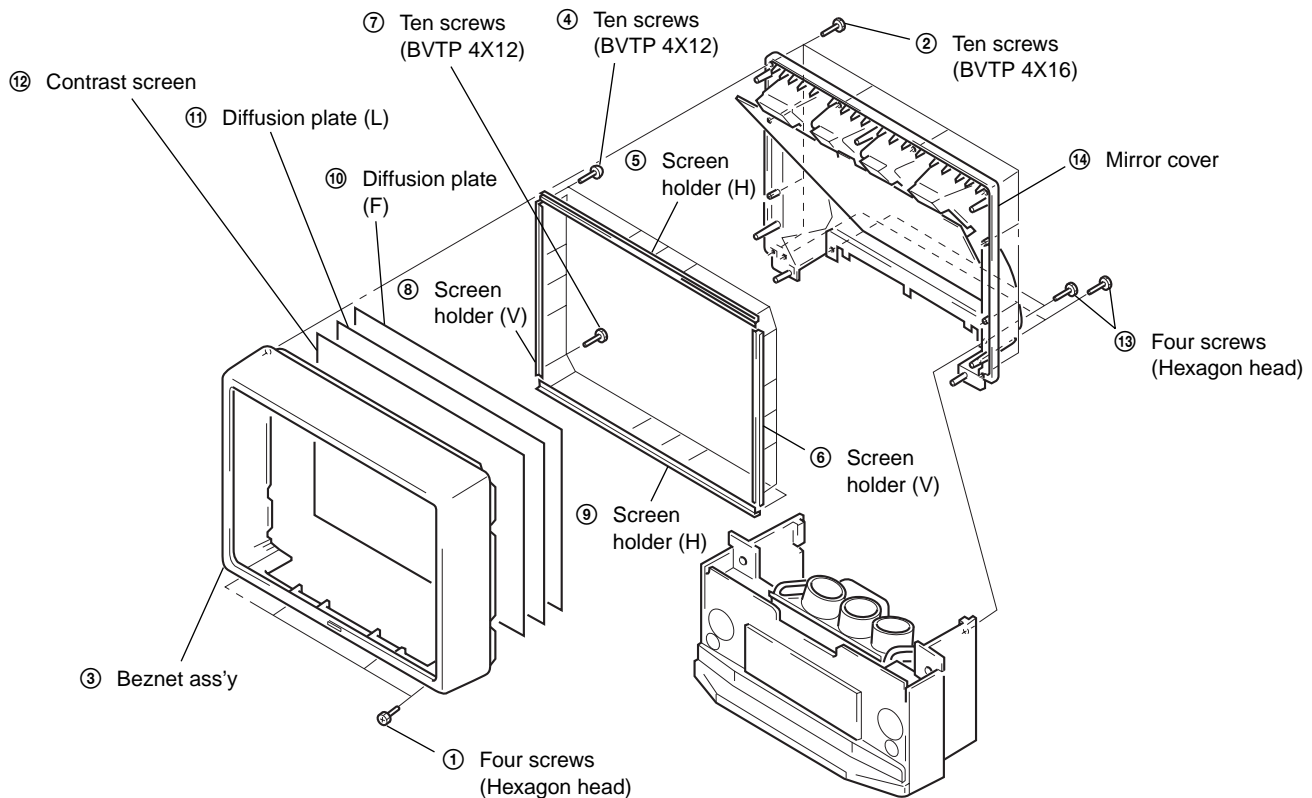


## 2-5. BEZNET SECTION REMOVAL

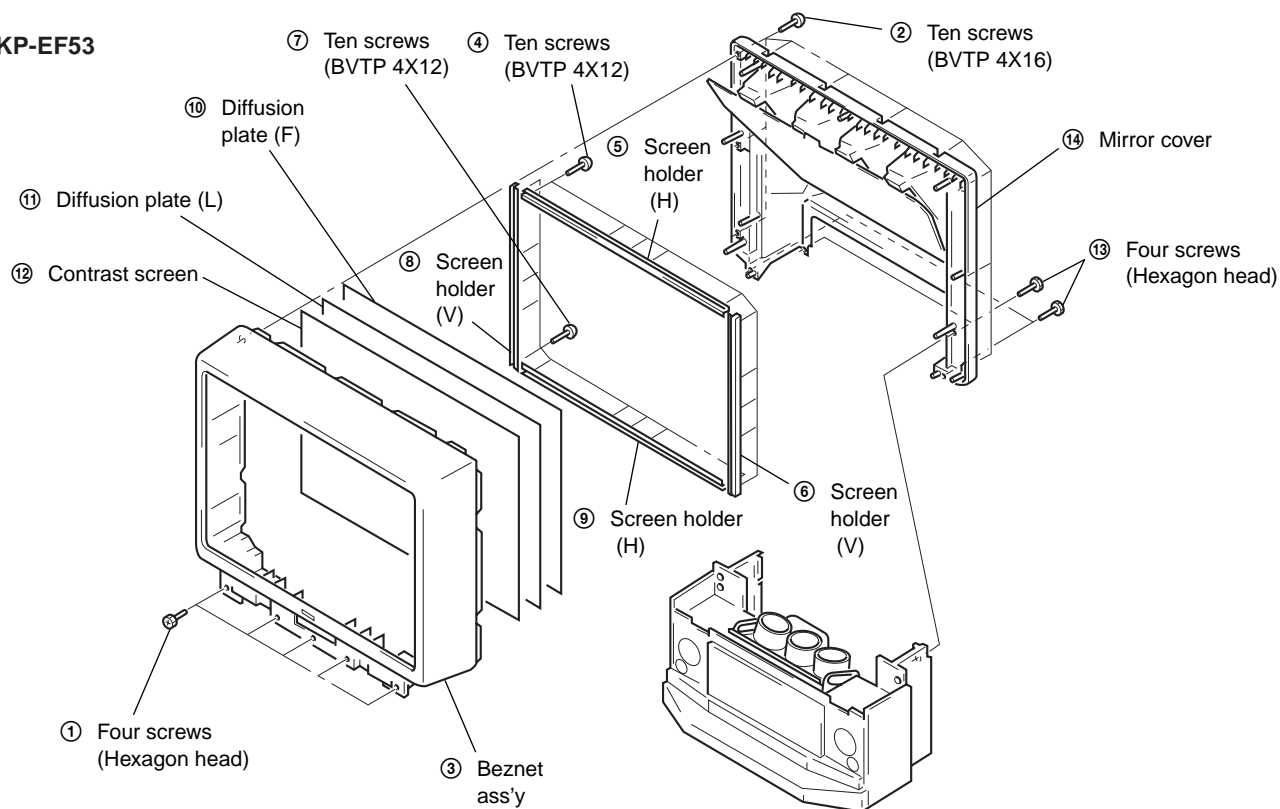
### • KP-EF41



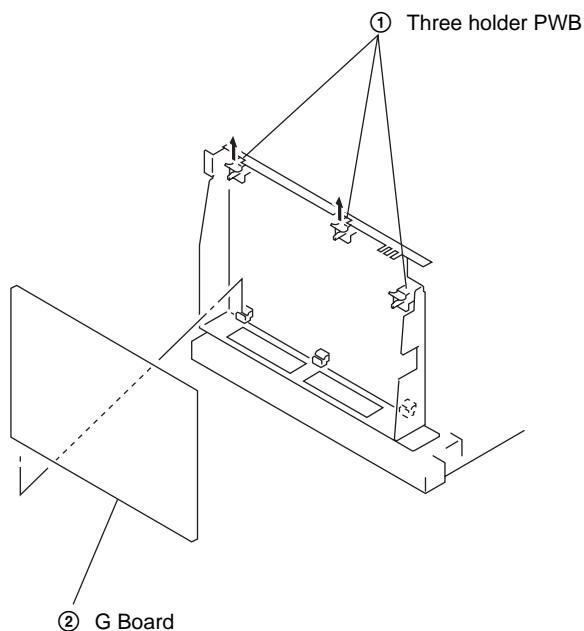
### • KP-EF48



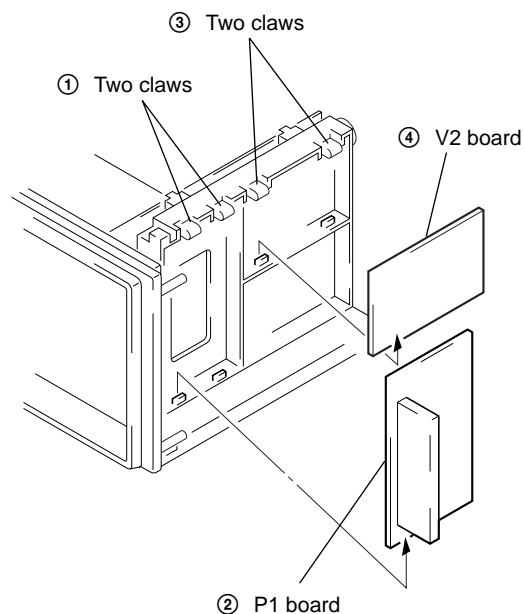
• KP-EF53



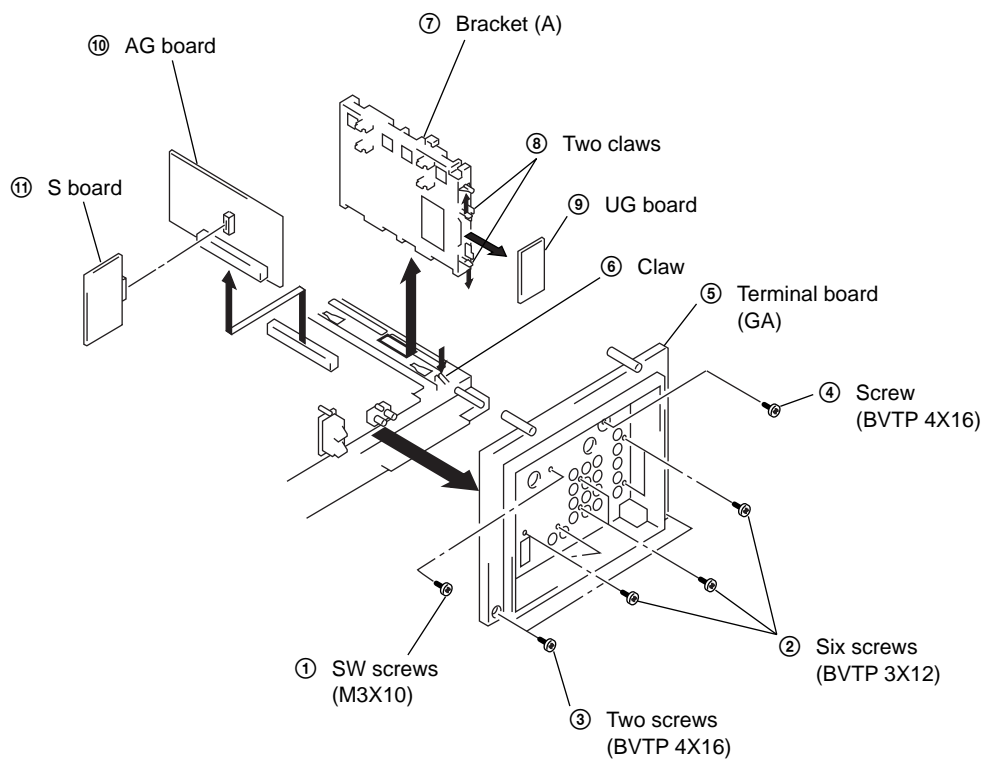
## 2-6. G BOARD REMOVAL



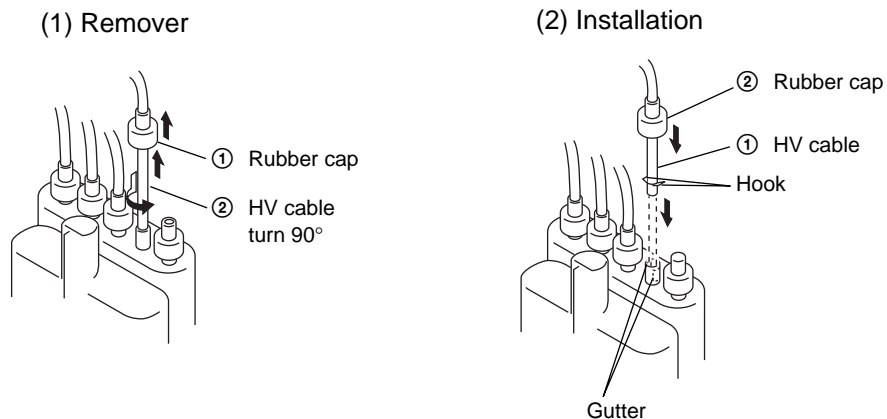
## 2-7. P1 BOARD AND V2 BOARD REMOVAL



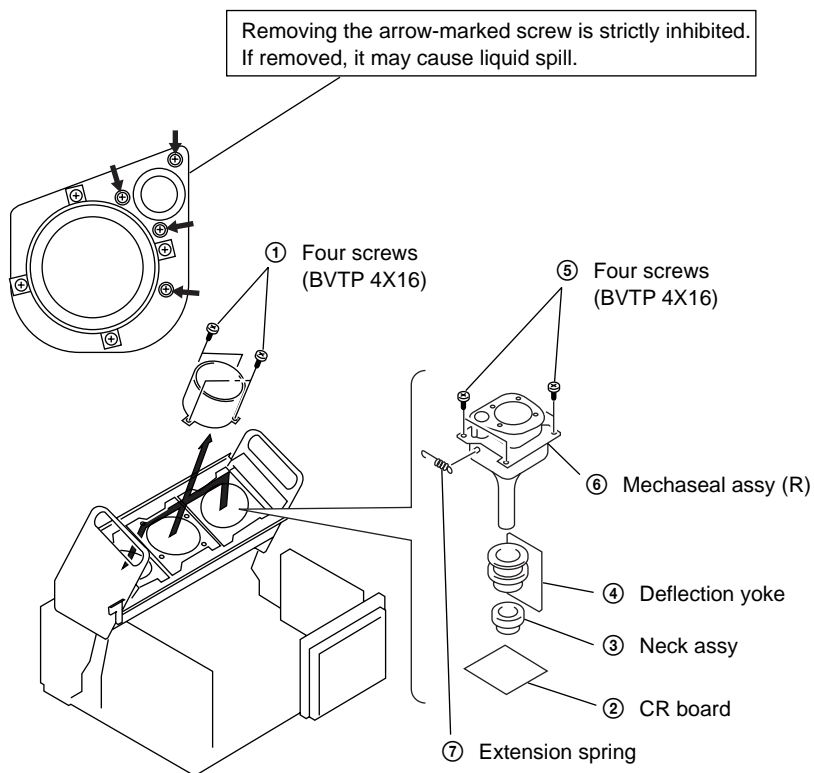
## 2-8. UG BOARD, AG BOARD AND S BOARD REMOVAL



## 2-9. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL



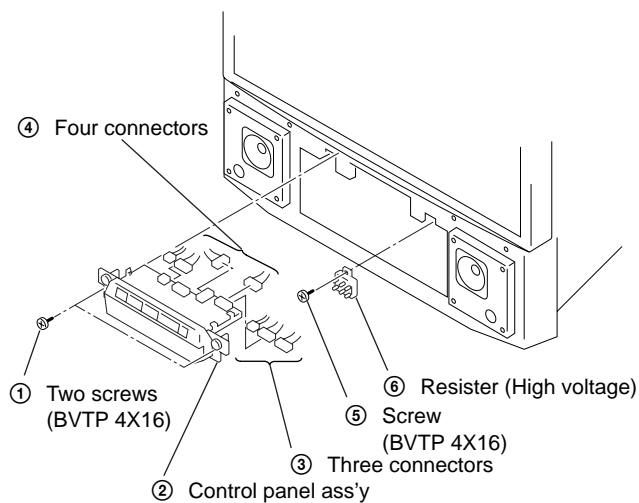
## 2-10. MECHASEL ASSY REMOVAL



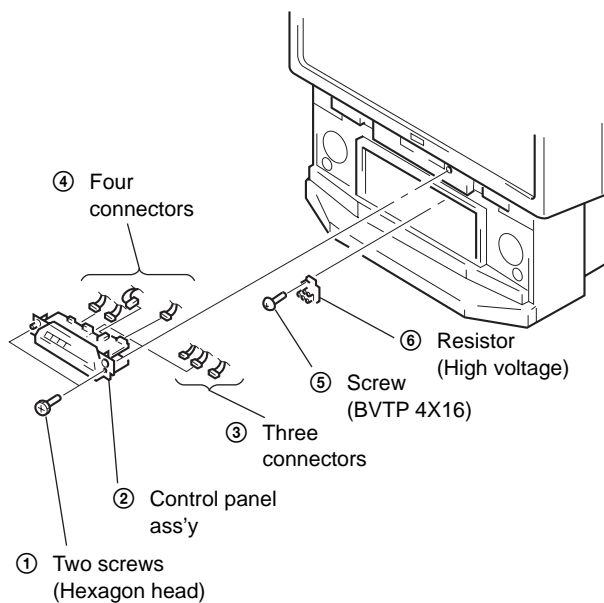
## 2-11. CHASSIS BLOCK REMOVAL

### (1) H1, H2 BOARDS AND RESISTOR REMOVAL

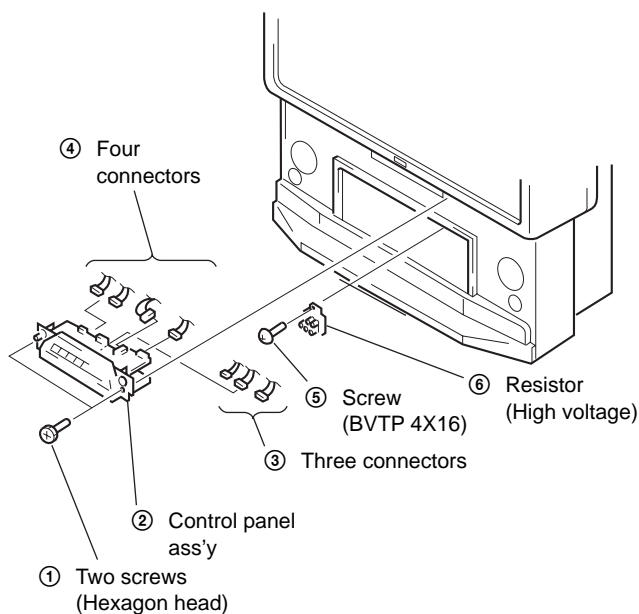
#### • KP-EF41



#### • KP-EF53



#### • KP-EF48

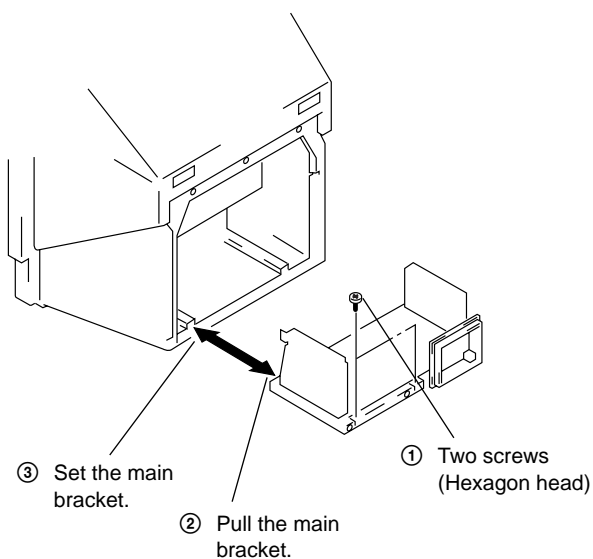




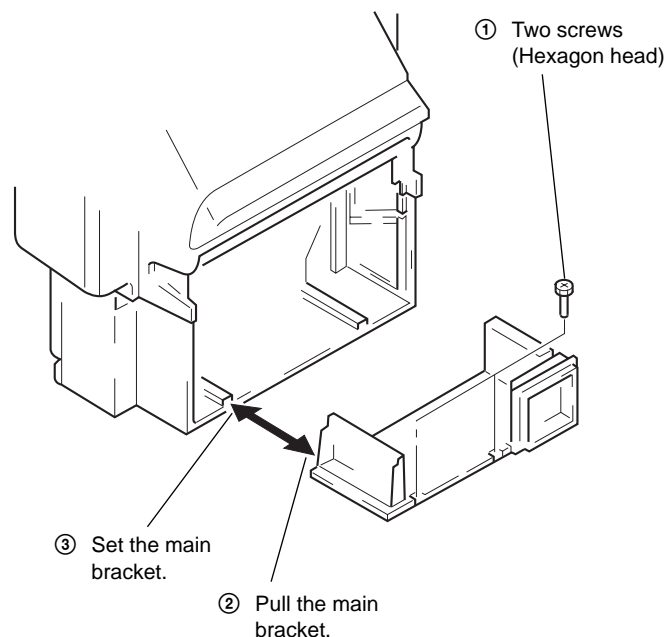
## (2) MAIN BRACKET REMOVAL

\* Pay particular attention to the wires of each PCB when pulling out the main bracket.

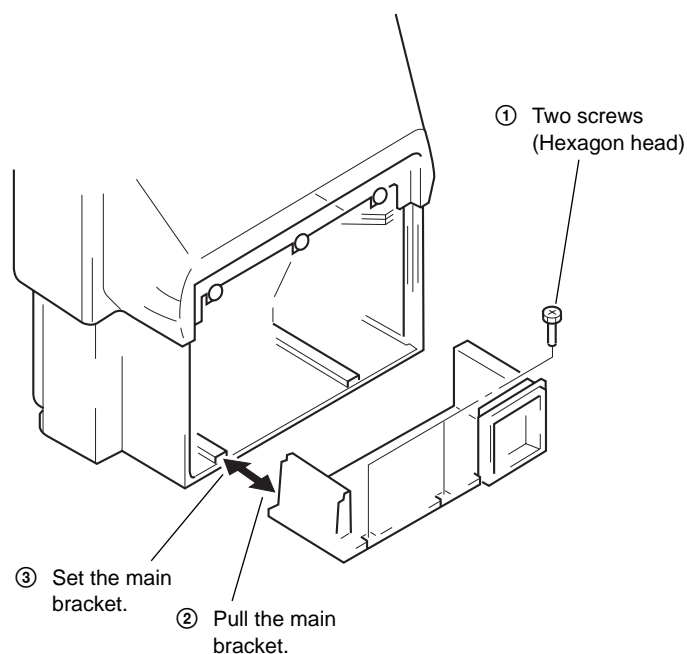
### • KP-EF41



### • KP-EF53



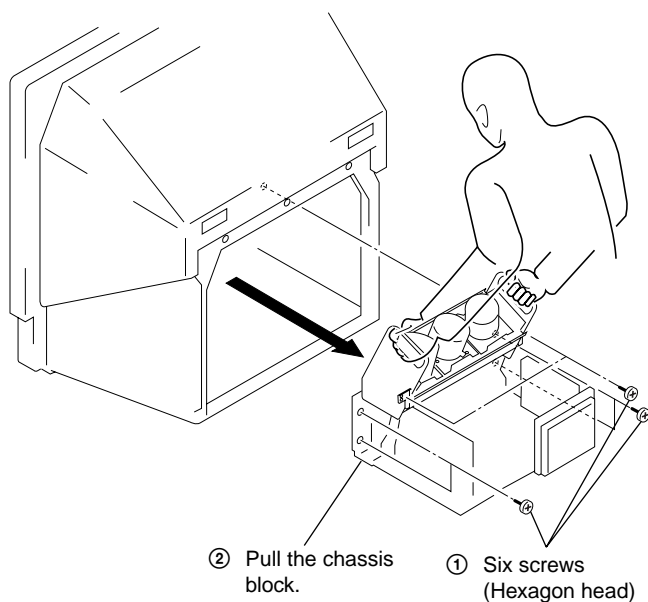
### • KP-EF48



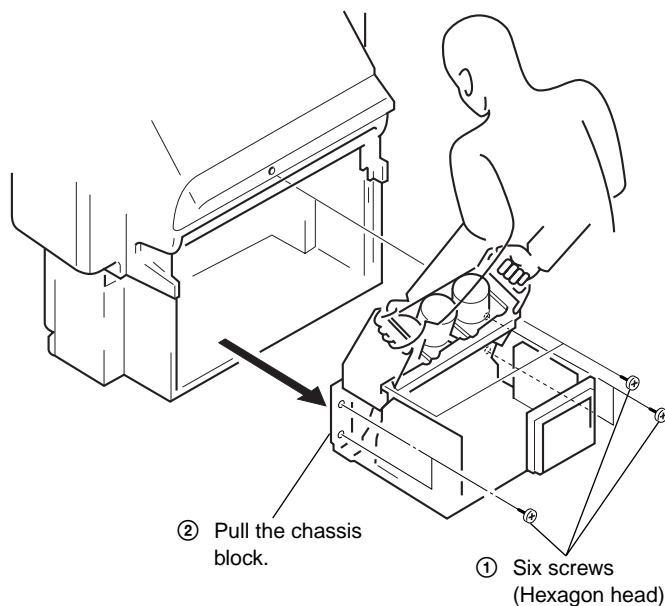
### (3) CHASSIS BLOCK REMOVAL

\* Pull out the chassis block by gripping the handles as shown in the diagram.  
At this time, pay particular attention to the components removed in (1).

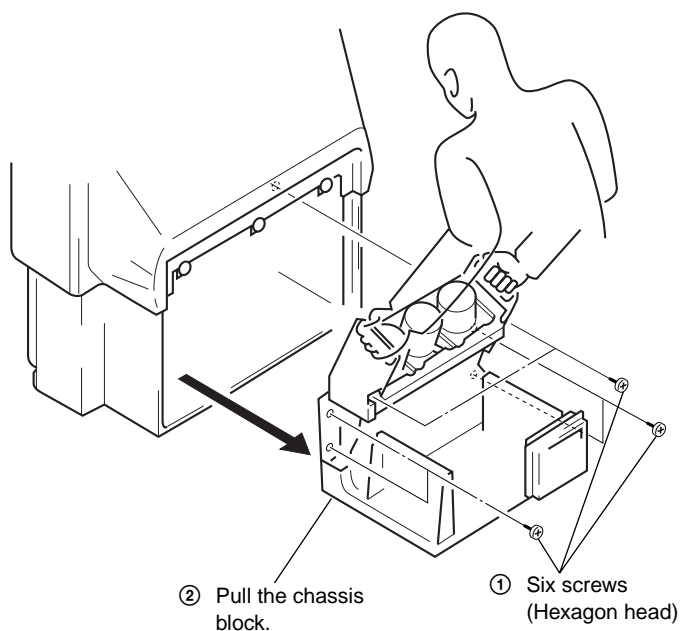
#### • KP-EF41



#### • KP-EF53



#### • KP-EF48



## SECTION 3 SET-UP ADJUSTMENTS

### 3-1. SCREEN VOLTAGE ADJUSTMENT (ROUGH ALIGNMENT)

1. Receive the Monoscope signal.
2. Set 50% BRIGHTNESS and minimum PICTURE.
3. Turn the red VR on the FOCUS Pack all the way to the left and then gradually turn it to the right until the point where you can see the retrace line.
4. Next gradually turn it to the left to the position where the retrace line disappears.

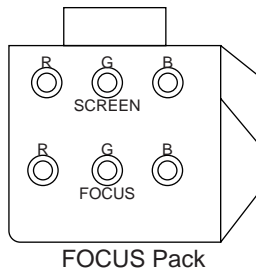


Fig. 3-1

### 3-2. FOCUS ADJUSTMENT

1. Loose the lens screw.
2. Set in service mode.
3. Place the caps on the red and blue lens so that only the green color is shown.
4. Press the Commander button and select OSD (CHSW) to display the test signal (crosshatch) on the screen.
5. Rotate the green lens and align with the optimal focus point from the test signal.
6. Rotate the green VR on the FOCUS Pack and align to obtain the optimal focus point.
7. Perform the same alignment for red and blue lenses and electric focus.
8. Fix lens screw.

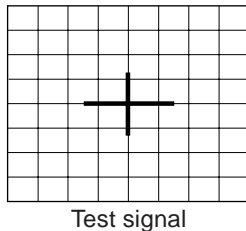


Fig. 3-2

### 3-3. SCREEN (G2) ADJUSTMENT

1. Connect JIG (A) to 200 V and GND.
2. Select VIDEO mode without signals.
3. Connect JIG to the TP701(KR), TP731(KG) or TP761(KB) of CR board, CG board and CB board.
4. Adjust R, G and B screen voltage to until retrace line disappears with screen VR on the focusblock.

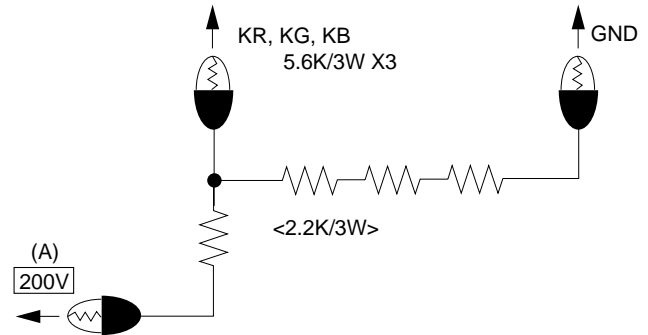


Fig. 3-3

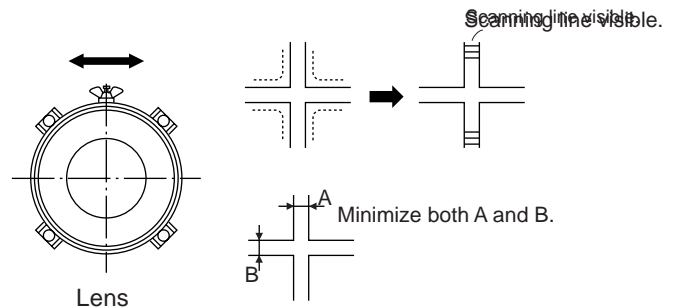


Fig. 3-4

Fig. 3-5

### 3-4. DEFLECTION YOKE TILT ADJUSTMENT

1. Set to receive the Monoscope signal.
2. Set in service mode.
3. Place the caps on the red and blue lens so that only the green color.
4. Loosen the deflection yoke setscrew and align the tilt of the Deflection Yoke so that the bars at the center of the monoscope pattern are horizontal.
5. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT.
6. The tilt of the deflection yoke for red and Blue is aligned the same as was done for green.

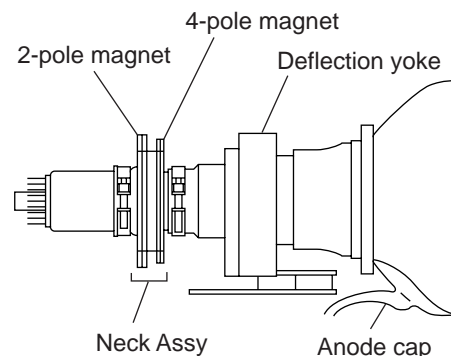


Fig. 3-6

### 3-5. 2-POLE MAGNET ADJUSTMENT

1. Set in service mode.
2. Set to receive the Dot signal.
3. Place the caps on the red and blue lens so that only the green color is shown.
4. Turn the green VR on the focus block to the right and set to overfocus to enlarge the spot.
5. Now align the 2-Pole Magnet so that the enlarged spot is in the center of the Just Focus spot.
6. Align the green focus VR and set for just (precise) focus.
7. Perform the same alignment for red and blue.

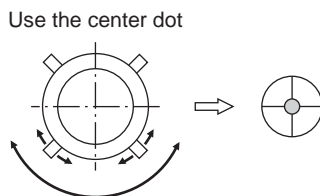


Fig. 3-7

### 3-6. 4-POLE MAGNET ADJUSTMENT

1. Set in service mode.
2. Set to receive the Dot signal.
3. Place the caps on the red and blue lens so that only the green color is shown.
4. Turn the green VR on the focus block to the left and set to underfocus to enlarge the spot.
5. Now align the 4-Pole Magnet so that the enlarged spot becomes a perfect circle.
6. Perform the same alignment for red and blue.

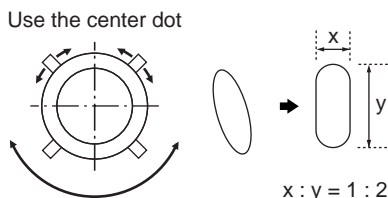


Fig. 3-8

### 3-7. DEFOCUS ADJUSTMENT (Blue)

1. Receive the Dot signal.
2. Place the caps on the red and green lens so that only the blue color is shown.
3. Rotate the blue focus volume on the focus pack and adjust to obtain best electrical focus.
4. Rotate Blue focus volume of focus pack clockwise, so that diameter of the Dot see Caution.

### [Change Blue Defocus]

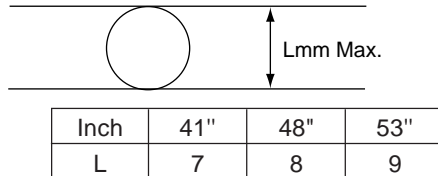


Fig. 3-10

### 3-8. GREEN AND RED FOCUS ADJUSTMENT

#### 3-8-1. Green and Red Lens Focus Adjustment

- 1) Input a monoscope signal.
- 2) Place a lens cover over Red and Blue lenses and project only Green.
- 3) Rotate the Green lens and adjust to obtain the best lens focus.
- 4) Fix lens screw.
- 5) Repeat above process for Red.

#### 3-8-2. Green and Red Electrical Focus Adjustment

- 1) Input a monoscope signal.
- 2) Project only Green.
- 3) Rotate the green focus volume on the focus pack and adjust to obtain an optimal electrical focus in the top right corner, taking care of center focus is not NG. obtain a compromise between center and corner focus.
- 4) Repeat above process for Red.

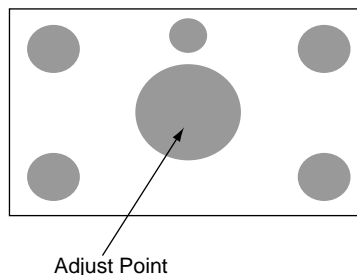


Fig. 3-11

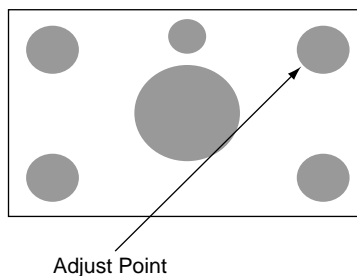


Fig. 3-12

SECTION 4  
SAFETY RELATED ADJUSTMENT

When replacing the following components marked with ■ on the schematic diagram, always check hold-down voltage and if necessary re-adjust.

Part Replaced (■)
R1

Part Replaced (■)
E Board C515, C516, C554, D504, D507, L506, Q502, R1, R514, R516, R517, T502, T504 (FBT)
G Board IC6008

4-1. HV HOLD-DOWN ADJUSTMENT

1. Remove CN810. Connect HV meter to HV Block.
2. Connect External Power Supply to CN810 ② pin (+135V) and ① pin (GND).

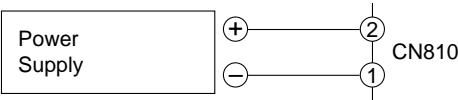


Fig. 4-1

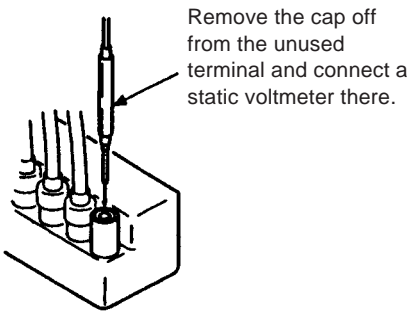


Fig. 4-2

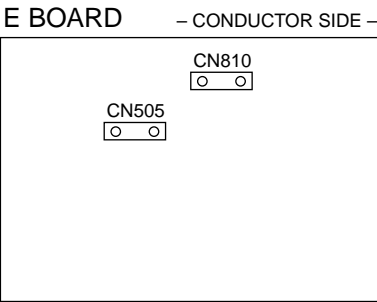


Fig. 4-3

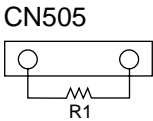


Fig. 4-4

3. Turn on the set.
4. Slowly up the supply voltage from 0V to 135V.
5. Receive dot picture and set PICTURE/BRIGHTNESS to minimum.
6. Slowly up the voltage until hold-down circuit works (picture disappear).
7. Read the HV meter of peak HV voltage.  
Spec:  $34.5 \pm 0.75KV$
8. If Hold-down voltage is less than 33.75KV then solder R1=820K.
9. If hold-down voltage is over than 35.25KV then take-off R514 and solder R1=9.1K.

SECTION 5  
CIRCUIT ADJUSTMENTS

5-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-871 that comes with this unit.

**Entering service mode**

With the unit on standby

i+

5

▲

□

The operation sequence puts the unit into service mode.

1, 4

3, 6

MUTING

0

Select the adjustment item.

Raise/lower the data value.

Writes.

Executes the writing.

7, 0

8, 0

5, 0

i+, 0

All the data becomes the values in memory.

All user control goes to the standard state.

Service data initialization (Be sure not to use usually.)

Write 50Hz adjustment data to 60Hz, or vice versa. (not to use 2, 0.)

The screen display is :

Adjustment item

Item numberDATAMode

00VSH1FSERVICE50

XXXV21C00 00 0020

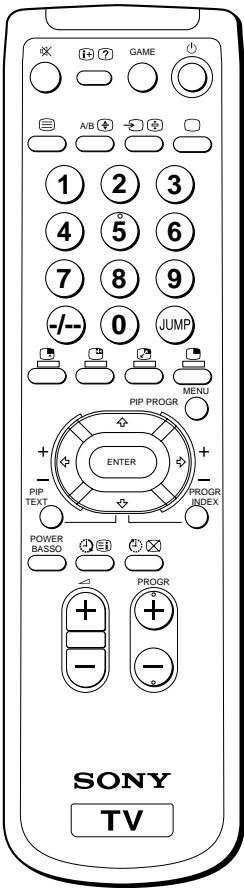
SOFTWARE VERSION

OEM CODEH SYNC COUNTER

Depends on the signals

PAL, SECAM : 50

NTSC : 60



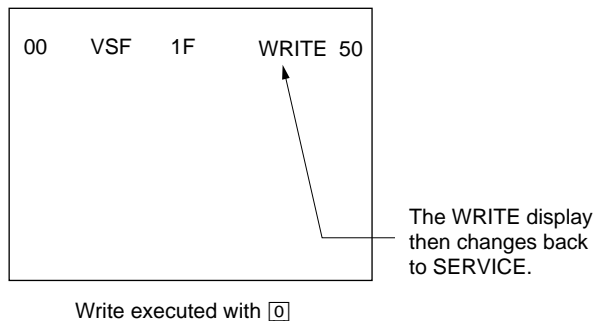
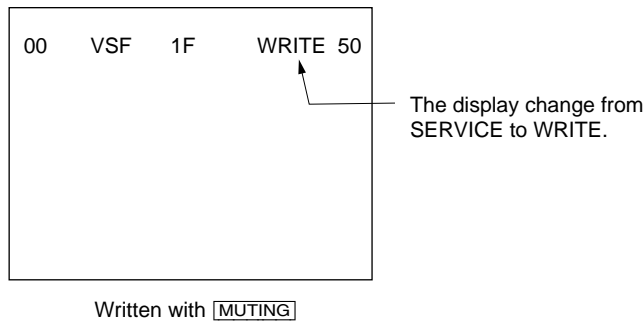
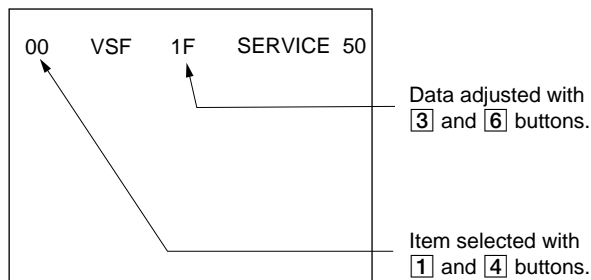
RM-871

## 5-2. ADJUSTMENT METHOD

Item Number 00

This explanation uses V-Position as an example.

1. Select 00 VSH with the **[1]** and **[4]** buttons.
2. Raise/lower the data with the **[3]** and **[6]** buttons.
3. Select the optimum state. (The standard is IF for PAL reception.)
4. Write with the **[MUTING]** button. (The display changes to WRITE.)
5. Execute the writing with the **[0]** button. (The WRITE display will be changed back to SERVICE.)



Use the same method for Items Number 00-99. Use **[1]** and **[4]** to select the adjustment item, use **[3]** and **[6]** to adjust, write with **[MUTING]**, then execute the write with **[0]**.

- As for V-FREQ, by searching the bolded screen V range with adjusting data.

**Note :** 1. For adjustment Items that have differnt standard data between 50Hz or 60Hz and normal or wide, be sure to use the respective input signal while adjusting.  
2. In **[WRITE]**, the data for all items are written into memory.

## 5-3. ADJUSTMENT AFTER IC1001 and IC1702 REPLACEMENT

1. Enter to Service Mode.
2. Change IC1001 (Except for Registration Adjustment).  
Change IC1702 (Only Registration Adjustment).
3. Call each item number, and check if the respective screen shows the normal picture.  
In cases where items are not well adjusted, recitify the items with fine adjustment.  
Write the data per each item number ( **[MUTING]** + **[0]** )
4. Select item numbers "98" (OP0) and "99" (OP1) and respectively set the bit per model with command buttons **[3]** and **[6]**.

Adjustment Item Table

Item Display	Adj Item	Data Range	Std Values	Register Name	Device
00	VSH	00~3F	1B	V POSITION	CXA2050S
01	VSZ	00~3F	21	V SIZE	
02	HSH	00~0F	07	H POSITION	
03	HSZ	00~3F	12	H SIZE	
04	SCR	00~0F	06	S CORRECTION	
05	VLN	00~0F	08	V LINEARITY	
06	PAP	00~3F	0E	PIN COMP	
07	PPH	00~0F	05	PIN PHASE	
08	UCP	00~0F	05	UP CORNER PIN	
09	LCP	00~0F	05	LOW CORNER PIN	
0A	BOW	00~0F	05	AFC-BOW	
0B	ANG	00~0F	09	AFC-ANGLE	
OSD0	CHSW	0,1	0	Hatch Display (0: Disp Hatch, 1: No Disp)	CXP86213-002S
OSD1	OSDH	1-32	10	OSD H POS	
OSD2	OSDV	1-32	10	OSD V POS	
OSD3	VMRK	0,1	0	V SIZE Mark	
SFT0	SFTE	0,1	1	Shift Enable	
SFT1	SFTF	0	0	Shift Fast	
GH0	GSEL	0,1	0	OSD Select for GH, GV (0: G + R, 1: Green)	
GH1	CENT	0	0	CENTER	
GH2	SKEW	-127~+127	0	SKEW	
GH3	BOW	-127~+127	0	BOW	
GH4	4bow	-127~+127	0	4th BOW	
GH5	SIZE	-127~+127	0	SIZE	
GH6	LIN	-127~+127	0	LINEARITY	
GH7	MSIZ	-127~+127	0	MID SIZE	
GH8	MLIN	-127~+127	0	MID LINEARITY	
GH9	KEY	-127~+127	0	KEYSTONE	
GH10	SSKW	-127~+127	0	SUB SKEW	
GH11	MPIN	-127~+127	15	MID PINCUSION	
GH12	PIN	-127~+127	-12	PINCUSION	
GH13	SBOW	-127~+127	8	SUB BOW	
GH14	MBOW	-127~+127	0	MID BOW	
GH15	4PIN	-127~+127	0	4th PINCUSION	
GH16	4SBO	-127~+127	0	rth SUB BOW	
GV0	CENT	0	0	CENTER	
GV1	SKEW	-127~+127	0	SKEW	
GV2	BOW	-127~+127	0	BOW	
GV3	SIZE	-127~+127	0	SIZE	
GV4	LIN	-127~+127	0	LINEARITY	
GV5	MSIZ	-127~+127	0	MID SIZE	
GV6	MKEY	-127~+127	0	MID KEYSTONE	
GV7	KEY	-127~+127	0	KEYSTONE	
GV8	SSKW	-127~+127	0	SUB SKEW	
GV9	MPIN	-127~+127	0	MID PINCUSION	
GV10	PIN	-127~+127	20	PINCUSION	
GV11	SBOW	-127~+127	16	SUB BOW	
GV12	WAVE	-127~+127	0	WAVWE	
GV13	4PIN	-127~+127	25	4th PINCUSION	
RH0	CENT	-95~+96	0	CENTER	
RH1	SKEW	-95~+96	0	SKEW	
RH2	BOW	-127~+127	0	BOW	
RH3	4BOW	-127~+127	0	4th BOW	
RH4	SIZE	-127~+127	25	SIZE	
RH5	LIN	-127~+127	10	LINEARITY	
RH6	MSIZ	-127~+127	30	MID SIZE	
RH7	MLIN	-127~+127	-30	MID LINEARITY	



Item Display	Adj Item	Data Range	Std Values	Register Name	Device
RH8	KEY	-127~+127	0	KEYSTONE	
RH9	SSKW	-127~+127	0	SUB SKEW	
RH10	MPIN	-127~+127	0	MID PINCUSION	
RH11	PIN	-127~+127	-10	PINCUSION	
RH12	SBOW	-127~+127	40	SUB BOW	
RH13	MBOW	-127~+127	12	MID BOW	
RH14	4PIN	-127~+127	0	4th PINCUSION	
RH15	4SBO	-127~+127	0	4th SUB BOW	
RV0	CENT	-95~+96	-10	CENTER	
RV1	SKEW	-95~+96	0	SKEW	
RV2	BOW	-127~+127	4	BOW	
RV3	SIZE	-127~+127	0	SIZE	
RV4	LIN	-127~+127	0	LINEARITY	
RV5	MSIZ	-127~+127	0	MID SIZE	
RV6	MKEY	-127~+127	10	MID KEYSTONE	
RV7	KEY KEYSTONE	-10	-10	-127±127	
RV8	SSKW	-127~+127	10	SUB SKEW	
RV9	MPIN	-127~+127	0	MID PINCUSION	
RV10	PIN PINCUSION	10	10	-127±127	
RV11	SBOW	-127~+127	16	SUB BOW	
RV12	WAE	-127~+127	30	WAVE	
RV13	4PIN	-127~+127	10	4th PINCUSION	
RV14	MWAVE	-31~+31	0	MID WAVE	
BH0	BSEL	0,1	0	OSD Select for BH, BV (0: B + G, 1: B + R)	
BH1	CENT	-95~+96	0	CENTER	
BH2	SKEW	-95~+96	0	SKEW	
BH3	BOW	-127~+127	0	BOW	
BH4	4BOW	-127~+127	0	4th BOW	
BH5	SIZE	-127~+127	-25	SIZE	
BH6	LIN	-127~+127	-10	LINEARITY	
BH7	MSIZ	-127~+127	30	MID SIZE	
BH8	MLIN	-127~+127	30	MID LINEARITY	
BH9	KEY	-127~+127	0	KEY KEYSTONE	
BH10	SSKW	-127~+127	0	SUB SKEW	
BH11	MPIN	-127~+127	0	MID PINCUSION	
BH12	PIN	-127~+127	-10	PINCUSION	
BH13	SBOW	-127~+127	-40	SUB BOW	
BH14	MBOW	-127~+127	-16	MID BOW	
BH15	4PIN	-127~+127	0	4PIN 4th PINCUSION	
BH16	4SBO	-127~+127	0	4th SUB BOW	
BV0	CENT	-95~+96	-10	CENTER	
BV1	SKEW	-95~+96	0	SKEW	
BV2	BOW	-127~+127	0	BOW	
BV3	SIZE	-127~+127	0	SIZE	
BV4	LIN	-127~+127	0	LINEARITY	
BV5	MSIZ	-127~+127	0	MID SIZE	
BV6	MKEY	-127~+127	-10	MID KEYSTONE	
BV7	KEY	-127~+127	10	KEYSTONE	
BV8	SSKW	-127~+127	-10	SUB SKEW	
BV9	MPIN	-127~+127	0	MID PINCUSION	
BV10	PIN	-127~+127	10	PINCUSION	
BV11	SBOW	-127~+127	32	SUB BOW	
BV12	WAVE	-127~+127	-30	WAVE	
BV13	4PIN	-127~+127	10	4th PINCUSION	
BV14	MWAVE	-31~+31	0	MID WAVE	
ACV0	ART0	1-8	6	DATA SAMPLE LENGTH	
ACV1	ATIM	0-255	1S	SAMPLE START TIME (UP)	

Item Display	Adj Item	Data Range	Std Values	Register Name	Device
ACV2	ATIM	0-255	132	SAMPLE START TIME (LSR)	
ACV3	ATIB	0-255	240	SAMPLE START TIME (BOT)	
ACV4	AH51	0-255	1S	OSD H POS 50 (L & R)	
ACV5	AH52	0-255	130	OSD H POS 50 (UP & BOTTOM)	
ACV6	AV5T	0-255	1	OSD V POS 50 (UP)	
ACV7	AV5M	0-255	60	OSD V POS 50 (L & R)	
ACV8	AV5B	0-255	130	OSD V POS 60 (BOTTOM)	
ACV9	AH61	0-255	18	OSD H POS 60 (L & R)	
ACV10	AH62	0-255	130	OSD H POS 60 (BOTTOM)	
ACV11	AV6T	0-255	1	OSD V POS 50 (UP)	
ACV12	AV6M	0-255	46	OSD V POS 50 (L & R)	
ACV13	AV6B	0-255	100	OSD V POS 50 (BOTTOM)	
ACV14	RHCO	-127~+127	0	RH CENT ADJ OFFSET	
ACV15	BHCO	-127~+127	0	BH CENT ADJ OFFSET	
ACV16	RCO	-127~+127	0	RV CENT ADJ OFFSET	
ACV17	BVCO	-127~+127	0	BV CENT ADJ OFFSET	
ACV18	RHSO	-127~+127	0	RH SKEW ADJ OFFSET	
ACV19	BHSO	-127~+127	0	BH SKEW ADJ OFFSET	
ACV20	RVSO	-127~+127	0	RV SKEW ADJ OFFSET	
ACV21	BVSO	-127~+127	0	BV SKEW ADJ OFFSET	
ACV22	AERR	0-255	0	AUTO CONV. ERROR CODE	
MSC0	ACTL	0-255	0	COUNTER (LOW BYTE)	
MSC1	ACTH	0-255	0	COUNTER (HIGH BYTE)	
0C	VAP	00~3F	2F	V ASPECT	CXA2050S
0D	VSC	00~3F	1F	V SCROLL	
0E	ULN	00~0F	00	UP V LINEARITY	
0F	LLN	00~0F	00	LOW V LINEARITY	
10	EHH	00~03	00	EHT-H	
11	EHV	00~03	00	EHT-V	
12	HBS	00~01	01	H BLK WID.ON/OFF	
13	LBK	00~0F	0F	L BLK WIDTH	
14	RBK	00~0F	0F	R BLK WIDTH	
15	JSW	00~01	00	JUMP ON/OFF SW	
16	VBW	00~03	02	V BLK WID.CON.	
17	AFC	00~03	01	AFC-MODE	
			03		
18	FHH	00~01	00	FH-HI	
19	VFQ	00~03	00	V-FREQ	
1A	VOF	00~01	00	V OFF	
1B	VMD	00~01	00	CD-MODE2	
1C	CMD	00~01	00	CD-MODE	
1D	TTL	00~03	00	INTERLACE	
1E	ZSW	00~01	00	ZOOM SW	
1F	POV	00~03	03	PRE-OVER	
20	CT1	00~01	01	C-TRAP(NTSC)	
21	CT2	00~01	01	C-TRAP(PAL)	
22	CFO	00~0F	07	C-TRAP fo ADJ	
23	SFO	00~01	00	SHARPNESS fo ADJ	
24	TOT	00~01	01	TOT FILTER SW	
25	CSW	00~03	00	COLOR SW	
26	XTL	00~03	00	XTAL	
			00		
27	CV1	00~01	01	CV/YC SEL(NTSC)	
28	CV2	00~01	01	CV/YC SEL(PAL)	
29	VM	00~01	01	VM ON/OFF	
2A	YVM	00~01	00	YS1/VM SW(0:YS1)	
2B	DPC	00~01	01	D-PIC ON/OFF	

Item Display	Adj Item	Data Range	Std Values	Register Name	Device
2C	DCO	00~01	01	DYNAMIC COLOR	
2D	GMM	00~03	01	GAMMA	
2E	DTR	00~01	01	DC-TRANSIENT	
2F	DL1	00~07	03	DELAY CTRL(PAL)	
			03		
30	DL2	00~07	03	DELAY CTRL(NTSC)	
			03		
31	DL3	00~07	03	DELAY CTRL(SECAM)	
			03		
32	DL4	00~07	07	DELAY AT DVD(50Hz)	
33	DL5	00~07	07	DELAY AT DVD(60Hz)	
34	SCN	00~0F	09	SUB-CONTRAST	
35	SC1	00~0F	0B	SUB-COLOR(OTHER)	
36	SC2	00~0F	0B	SUB-COLOR(NTSC)	
37	SH1	00~0F	04	SUB-HUE(TV)	
38	SH2	00~0F	07	SUB-HUE(VIDEO)	
39	SBR	00~3F	24	SUB-BRIGHT	
3A	SSH	00~07	04	SUB-SHARPNESS	
			02		
3B	GDR	00~3F	1D	G-DRIVE	
3C	BDR	00~3F	20	B-DRIVE	
3D	GCF	00~0F	07	G-CUTOFF	
3E	BCF	00~0F	08	B-CUTOFF	
3F	RPO	00~03	01	0F[0..1]	
			02		
40	PON	00~01	01	PIC-ON	
41	RON	00~01	01	R ON	
42	GON	00~01	01	G ON	
43	BON	00~01	01	B ON	
44	AKF	00~01	00	AKB ON/OFF SW	
45	ESY	00~01	00	EXT SYNC SEL	
			00		
46	AGG	00~01	00	AGING MODE ON/OFF	
47	ABL	00~01	00	ABL PIC/PICandBRT SW (1:PIC ONLY)	
48	LIM	00~01	00	RGB LIMIT ON/OFF (1:ON)	
49	PB	00~01	01	PICTURE BOOSTER	No use
4A	BOF	00~01	01	BLACK OFFSET	
4B	UVG	00~3F	1F	USER VAR.GAMMA	
4C	ADG	00~3F	1F	ADAPTIVE GAMMA	
4D	NLA	00~3F	05	NON-LINEAR AMP	
4E	WDS	00~02	00	WINDOW SELECT	
4F	LST	00~0F	07	WINDOW LINE START	
50	LSP	00~0F	07	WINDOW LINE STOP	
51	FST	00~0F	07	WINDOW FIELD START	No use
52	FSP	00~0F	07	WINDOW FIELD STOP	
53	VA	00~01	01	V APERTURE ON/OFF	
54	VAW	00~03	02	V APERTURE WHITE	
55	VAB	00~03	02	V APERTURE BLACK	
56	VAC	00~0F	02	V APERTURE CORE	
57	SHP	00~3F	25	SHARPNESS	
			20		
58	VMH	00~3F	29	VM LIMITTER(HIGH)	No use
59	VML	00~3F	1C	VM LIMITTER(LOW)	

Item Display	Adj Item	Data Range	Std Values	Register Name	Device
5A	COR	00~3F	1C	CORING	SDA9189X
5B	DOF	00~3F	1C	DSC OFFSET	
5C	DGA	00~3F	1F	DSC GAIN	
5D	DLT	00~01	01	DELAY TIME	
5E	SDL	00~0F	00	SEL PIN DELAY	
5F	POH	00~FF	1B	H POSITION(MSB 8bit)	
60	POV	00~FF	2F	V POSITION	
61	HDL	00~1F	0B	HSI DELAY	
62	AMS	00~01	00	DECIMATION FILTER	
63	VDL	00~1F	0B	VSI DELAY	
64	VSP	00~1F	0D	VSP DELAY	
65	CON	00~0F	06	CONTRAST	
66	FRY	00~0F	09	FRAME Y	
67	FRV	00~0F	00	FRAME V	
68	FRU	00~0F	00	FRAME U	
69	INF	00~01	01	INNER FRAME	
6A	FWV	00~03	02	FRAME WIDTH V	
6B	FWH	00~07	07	FRAME WIDTH H	
6C	PLL	00~03	02	PLL LOOP FILTER	
6D	PDV	00~0F	00	PEDESTAL V	
6E	PDU	00~0F	00	PEDESTAL U	
6F	DAT	00~01	00	DAC STREAM CONTROL	
70	DAN	00~01	00	DAC CONTROL	
71	FAW	00~FF	08	NICAM FAW THRESH	MSP3410
72	CTM	00~FF	08	NICAM ERROR BIT(MONO)	
73	CTN	00~FF	50	NICAM ERROR BIT(NICAM)	
74	WCD	00~FF	0A	W.G.DATA CHANGE	
75	WST	00~FF	15	W.G.STEREO THRESHOLD	
76	WTM	00~FF	50	W.G.TIMER	
77	WBT	00~01	EA	W.G.BILINGUAL THRESHOLD	
78	AGC	00~01	01	AGC AUTO/CONST	
79	CDB	00~3F	28	AGC GAIN CONST	
7A	FGP	00~7F	24	FM(BG,I,DK)PRESCALE	
7B	EMP	00~7F	40	FM(M)PRESCALE	
7C	WGP	00~7F	3C	W.G.PRESCALE	
7D	NIP	00~7F	7F	NICAM PRESCALE	
7E	CRM	00~01	00	CARRIER MUTE	
7F	CML	00~03	00	CARRIER MUTE LEVEL	
80	ACO	00~01	01	AUDIO CLOCK OUT	
81	WAC	00~0F	01	W.G.AGREEMENT COUNT	
82	DLY	00~FF	30	STEREO SEARCH DELAY	
83	DLG	00~FF	10	W.G.SEARCH DELAY	
84	TXP	00~0F	0E	TEXT PICTURE CONT	SAA5261
85	MXP	00~0F	0F	TEXT MIX MODE PIC	
86	TXH	00~03	02	TEXT DISPLAY POSITION(H)	
87	BB1	00~3F	1D	BBE CONTROL HIGH	CXA1315
88	BB2	00~3F	1D	BBE CONTROL MIDDLE	
89	BB3	00~3F	28	BBE CONTROL LOW	
8A	ATW	00~03	01	AUTO WIDE IDENTSPD	No use
8B	BKP	00~FF	00	BLK OFF PICTURE	No use
8C	OSH	00~3F	0D	OSD POSITION H	
8D	ODL	00~FF	10	POWER ON DELAY	
8E	BLU	00~01	01	BLUE BACK ON/OFF	
8F	ROC	00~0F	0F	N/S CENTER VOL	

Note:  Items are fixed data.

Item Display	Adj Item	Data Range	Std Values	Register Name	Device
90	ROS	00~07	07	USER SET UP	
91	DKS	00~01	01	D/K STEREO SEARCH	
92	MUT	00~01	01	NO SYNC MUTE	
93	DID	00~01	00	DISABLE DEGAUSS	
94	DWZ	00~01	00	DISABLE WIDEZOOM	
95	BCS	00~01	00	BASS CENTER SHIFT	
96	RVS	00~01	00	BASS VOLUME SHIFT	
97	WBS	00~03	00	WOOFER OFF BASS SHIFT	
98	OP0	00~FF	C1	OPTION 0	
99	OP1	00~FF	3E	OPTION 1	

**Note:**  Items are fixed data.

## ITEM INFORMATION

No.98 OP 0

ITEM	MSP RST	H.D. M	—	—	—	—	—	Text Mode
Normal	0	0	0	0	0	0	0	1

bit 0 0: Automatic mode

1: Fastext mode

bit 6 0: High Deviation mode Disable

1: High Deviation mode Enable

bit 7 0: Off

1: On

No.99 OP 1

ITEM	WIDE	WOOFER	TILT	VM	COMB ELECT	COMB	SECAM	B/G ONLY
Normal	0	0	1	1	1	1	1	0

E: Tilt, Digital comb, SECAM decoder

V: Wide, Tilt, Digital comb, SECAM decoder

J: Tilt, Grass comb, VM, SECAM decoder

bit3 0: Grass comb

1: Digital comb

bit2 0: comb OFF

1: comb ON

## 5-4. REGISTRATION (CONVERGENCE) ADJUSTMENT METHOD

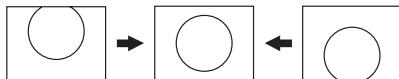
### PAL REGISTRATION ADJUSTMENT

- 1) Receive the PAL SPCB signal.
- 2) Select Service mode and enter adjustment items for Green signal.

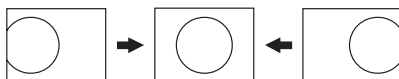
### CENTER ADJUSTMENT

- 1) Adjust GH and GV CENT.

#### GV CENT



#### GH CENT

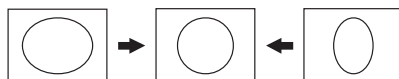


### SIZE ADJUSTMENT

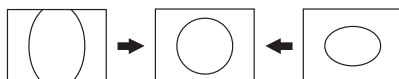
- 1) Adjust GH SIZE data "0".
- 2) Adjust VSP H-SIZE.
- 3) Make GV SIZE data "00".
- 4) Adjust VSP V-SIZE.
- 5) Adjust VSP SSCOR.

SPEC : H-SIZE 16.4 +/- 0.15 Sq.  
V-SIZE 12.3 +/-0.15Sq.

#### VSP HSIZE



#### VSP VSIZE

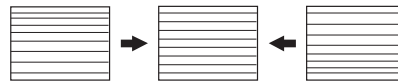


## MAIN DEFLECTION ADJUSTMENT

- 1) Adjust VSP V-Lin.

Correct linearity of the horizontal top and bottom lines.

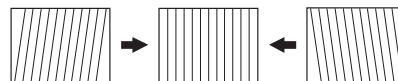
#### VSP VLINE



- 2) Adjust VSP H-SKEW

Correct the vertical center line to be in parallel with the screen edges and other colors.

#### VSP H-SKEW



- 3) Adjust VSP H-BOW.

Correct linearity of the vertical center line.

#### VSP H-BOW



- 4) Adjust VSP H-PIN.

Correct the vertical left and right lines and eliminate pin-cushion-shaped distortion.

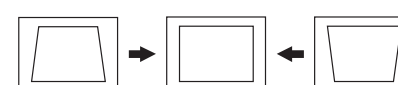
#### VSP H-PIN



- 5) Adjust VSP H-Key.

Correct the vertical left and right lines to be in parallel with each other.

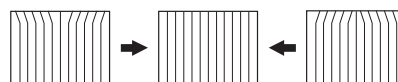
#### VSP H-KEY



- 6) Adjust VSP UC. PIN

Correct the screen top section line bow.

#### VSP UC. PIN



- 7) Adjust VSP LC. PIN

Correct the screen bottom section line bow.

#### VSP LC. PIN



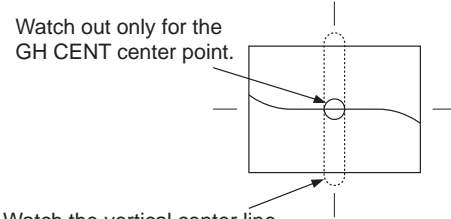
## SUB DEFLECTION ADJUSTMENT ITEM

Adjustment O : Yes – : No

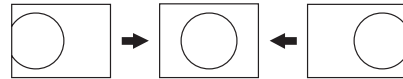
Display	Adjustment item	Adjustment type					
		GH	GV	RH	RV	BH	BV
BSEL	COL SELECT	–	–	–	–	O	–
CENT	CENT	O	O	O	O	O	O
SKEW	SKEW	O	O	O	O	O	O
BOW	BOW	O	O	O	O	O	O
4BOW	4TH BOW	O	–	O	–	O	–
SIZE	SIZE	O	O	O	O	O	O
LIN	LIN	O	O	O	O	O	O
MSIZ	MID SIZE	O	O	O	O	O	O
MLIN	MID LIN	O	O	O	–	O	–
MKEY	MID KEY	–	O	–	O	–	O
KEY	KEY	O	O	O	O	O	O
SSKW	SUB SKEW	O	O	O	O	O	O
MPIN	MID PIN	O	O	O	O	O	O
PIN	PIN	O	O	O	O	O	O
SBOW	SUB BOW	O	O	O	O	O	O
WAVE	WAVE	–	O	–	O	–	O
MBOW	MID BOW	O	–	O	–	O	–
4PIN	4TH PIN	O	O	O	O	O	O
4SBOW	4TH SUB BOW	O	–	O	–	O	–

## VERTICAL LINE ADJUSTMENT

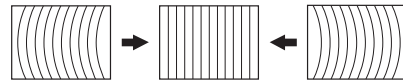
1. Carefully watching out for the GH CENT screen centre section, adjust GH CENT, GH BOW, GH SKEW.
2. GH 4th Bow adjustment. Correct the corner distortion which could not be adjusted with GH BOW.



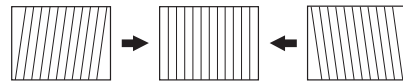
### GH CENT



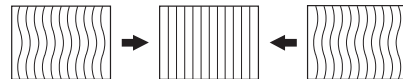
### GH BOW



### GH SKEW

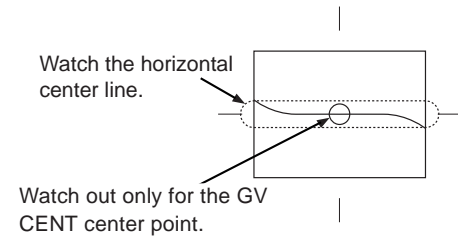


### GH 4BOW

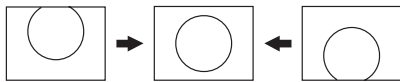


### HORIZONTAL LINE ADJUSTMENT

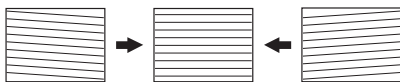
1. Finely adjust the centre position of the vertical line at the centre of the screen with GV CENT.
2. Using GV SKEW and GV BOW, correct the tilt and bow of the horizontal line at the centre of the screen.



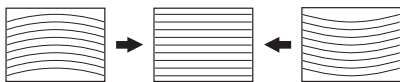
#### GV CENT



#### GV SKEW

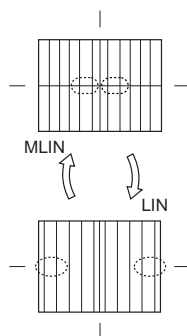


#### GV BOW



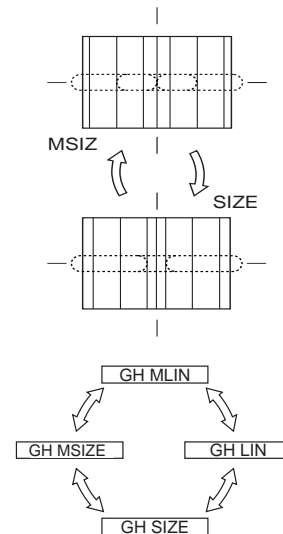
### SIZE AND LINEARITY ADJUSTMENT

1. Balance the sizes at both sides of the centre section of the screen with GH MLIN.
2. Balance the sizes on both end sections of the screen with GH LIN.
3. While tracking, adjust with GH MLIN and GH LIN so that the sizes of the horizontal line at the centre of the screen are symmetrical left and right.



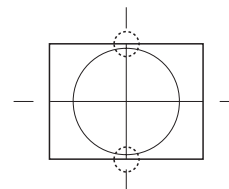
### HORIZONTAL SIZE ADJUSTMENT

1. Adjust with GH MSIZE, so that the sizes of both edges and centre are equal.
2. Adjust with GH SIZE, so that the horizontal sizes of both edges and centre are equal.
3. While tracking adjust GH MSIZE and GH SIZE so that the space intervals for the horizontal section of the screen are equal.
4. Adjust again if M LIN is changed after GH MSIZE and GH SIZE are complete.



### GREEN VERTICAL LINEARITY ADJUSTMENT

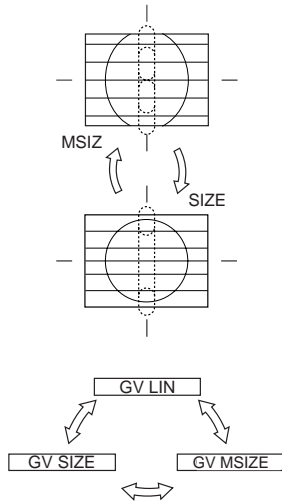
1. Adjust GV LIN so that the vertical lines at the top and bottom of the screen are symmetrical.





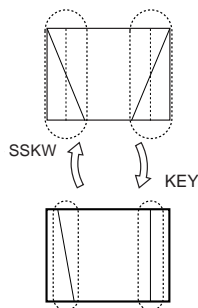
### GREEN VERTICAL SIZE ADJUSTMENT

1. Adjust GV MSIZE so that the sizes at the top and bottom and centre are equal.
2. Set the vertical size to correct specification.
3. While tracking adjust GV MSIZE and GV SIZE so that the space intervals for the vertical line of the screen are equal, also the vertical size should be within space.
4. Adjust again if GV LIN has been altered after completing the above adjustments.



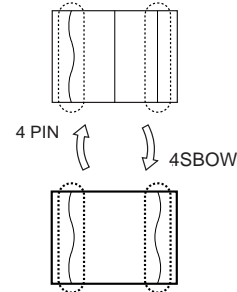
### GREEN HORIZONTAL TRAPEZOIDAL DISTORTION ADJUSTMENT

1. Adjust GH SSKW so that the tilt of the vertical lines at both edges of the screen are symmetrical left and right.
2. Adjust GH KEY so that there is no tilt in the vertical lines at both edges of the screen.
3. While tracking adjust GH KEY and GH SSKW.



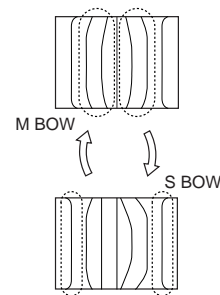
### GREEN HORIZONTAL QUATERNARY ADJUSTMENT

1. Adjust GH 4PIN, to correct the 4th order distortion.
2. Adjust GH 4SBO to balance and correct the 4th order distortion at both edges of the screen.
3. While tracking adjust GH 4PIN and GH 4SBO.



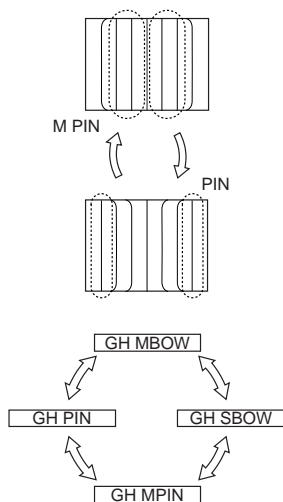
### GREEN HORIZONTAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT

1. Adjust GH MBOW, so that the pin asymmetry at both sides of the centre section are symmetrical left and right.
2. Adjust GH SBOW so that the bow at both edges of the screen is symmetrical left and right.
3. While tracking adjust GH MBOW and GH SBOW so that the bow of vertical lines over the entire screen is symmetrical.



### GREEN HORIZONTAL SYMMETRICAL PIN DISTORTION ADJUSTMENT

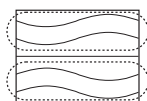
1. Adjust GH MPIN to correct pin distorton at both edges of the centre section.
2. Use GH PIN to correct pin distortion at both edges of the screen.
3. While tracking adjust GH MPIN and GH PIN so that the PIN of vertical lines on the entire screen have no bowing.
4. If there is asymmetrical distortion after adjustments, re-adjust GH MBOW and GH SBOW while tracking.



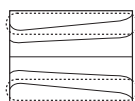
### GREEN VERTICAL WAVE (3RD-ORDER) DISTORTION ADJUSTMENT

1. Check the screen at the top & bottom, and look for any 2nd or 3rd order waveform distortion of horizontal lines. Correct with GV WAVE.
2. While tracking adjust GV WAVE and GV KEY, if there are any KEY distortion.

GV WAVE



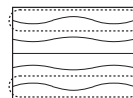
GV KEY



### GREEN VERTICAL 4TH ORDER DISTORTION ADJUSTMENT

1. By using GV 4 PIN, 4th-Order distortion of the horizontal lines at the top & bottom can be corrected. Since there is no 4SBO for vertical correction, there will be a slight imbalance, but adjust the registration to eliminate any distortion.

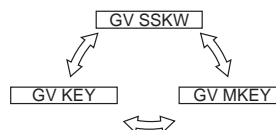
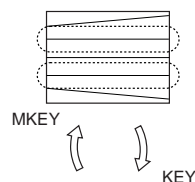
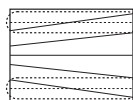
GV 4PIN



### GREEN VERTICAL TRAPEZOIDAL DISTORTION ADJUSTMENT

1. Adjust GV SSKW so that the tilt of the horizontal lines at the top and bottom of the screen are symmetrical.
2. Adjust GV MKEY so that there is no tilt for the middle section.
3. Adjust GV KEY so that there is no tilt at the top and bottom of the screen.
4. While tracking adjust GV MKEY and GV KEY, so that there is no tilt over the entire screen.
5. If the tilt is unbalanced after GV MKEY and GV KEY have been adjusted, readjust GV SSKW.

GV SSKW



### GREEN VERTICAL ASYMMETRICAL PIN DISTORTION (2ND-ORDER DISTORTION) ADJUSTMENT

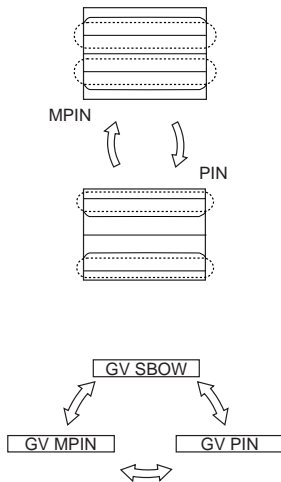
1. Correct the asymmetrical pin distortion at the top and bottom of the screen with GV SBOW.

GV SBOW



### GREEN VERTICAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT

1. Using GV MPIN adjust the pin distortion at both edges of the screen and at the centre.
2. Using GV PIN, adjust, so that the horizontal lines at the top & bottom of the screen are straight lines.
3. Adjust GV MPIN & GV PIN so that there is no curve in the horizontal lines on the entire screen.
4. After adjusting the items above, using tracking with GV SBOW. GV MPIN, and GV PIN to correct the entire screen.



### GREEN AND RED REGISTRATION ADJUSTMENT

1. Receive a PAL cross-hatch signal.
2. Adjust so that the red lines lay on the green lines.  
Adjust, using the same procedure as the GREEN SUB adjustment outline above.

Note : Main registration correction should not be while adjusting Red adjustment.

BEWARE : Not to change Green Sub Items It's easily done by mistake.

### GREEN AND BLUE ADJUSTMENT

1. Adjust so that the blue and green lines are on top of each other.

Note : Main registration correction should not be while adjusting Blue adjustment.

BEWARE : Not to change Green & Red Sub Items. It's easily done by mistake.

### REGISTRATION DATA WRITE

After Finish all PAL registration adjustments, write PAL registration data by pressing from the appropriate buttons.

**DATA WRITE**

Press MUTE +0

### DATA COPY FROM PAL TO NTSC

Copy PAL data to NTSC data by pressing " DISPLAY " and " 0 "

- \* Press " **i+** (DISPLAY) " + " 0 " to copy data from PAL to NTSC.

If you press " **i+** (DISPLAY) ", then it appears " WRT5060 " to display.

- \* Make sure input signal is PAL. If input signal is NTSC and do this process, NTSC data are copied to PAL data!

### 5-5. AUTO CONVERGENCE ADJUSTMENT

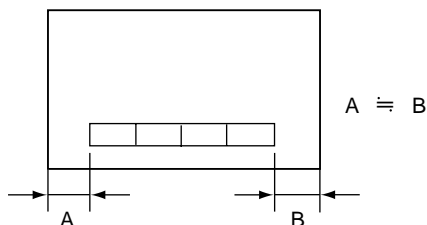
1. Enter service mode.
2. Confirm registration is well adjusted (especially center).
3. Push "Quick Focus" (Auto Convergence) button in the control panel.
4. If, Auto Convergence is successfully finished, then OK.
5. If not, please check the connection of the photo sensor and it's harness.

## 5-6. WHITE BALANCE ADJUSTMENT

1. Receive the monoscope signal and adjust the picture quality with the menu.
2. Adjust service mode S-BRIGHT so that the signal 10 IRE section barely glows.
3. Receive the all-white pattern signal.
4. Adjust the white balance with service mode G-CUTOFF and B-CUTOFF.
5. Adjust service mode S-BRIGHT so that the signal 100 IRE section barely glows.
6. Adjust the white balance with service mode G-DRIVE and B-DRIVE.
7. Repeatedly adjust the white balance for the minimum and maximum picture settings.

## 5-7. TEXT POSITION ADJUSTMENT

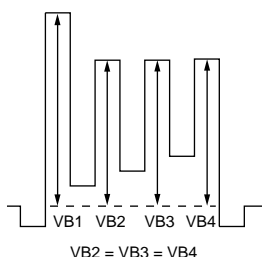
1. Receive RF signal with text.
2. Select item 86 (TXH) Text H position adjustment by commander.
3. Adjust H Position of Text.



## 5-8. PICTURE QUALITY ADJUSTMENTS

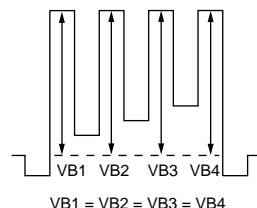
### SUB COLOR ADJUSTMENT (SC1, SC2)

1. Input a PAL color-bar.
2. Set to the following condition:  
PICTURE 90%, BRIGHTNESS 50%, COLOR 50%
3. Connect an oscilloscope to the pin ④ (B OUT) of CN405, AG board.
4. Set to Service Mode and select 35 SC1 with [1] and [4] of the commander then adjust to VB2=VB3=VB4 with [3] and [6].
5. Press [MUTING] → [0] of the commander to write the data.
6. Adjust 36 SC2 as step 2 to 5 when receiving NTSC color-bar.



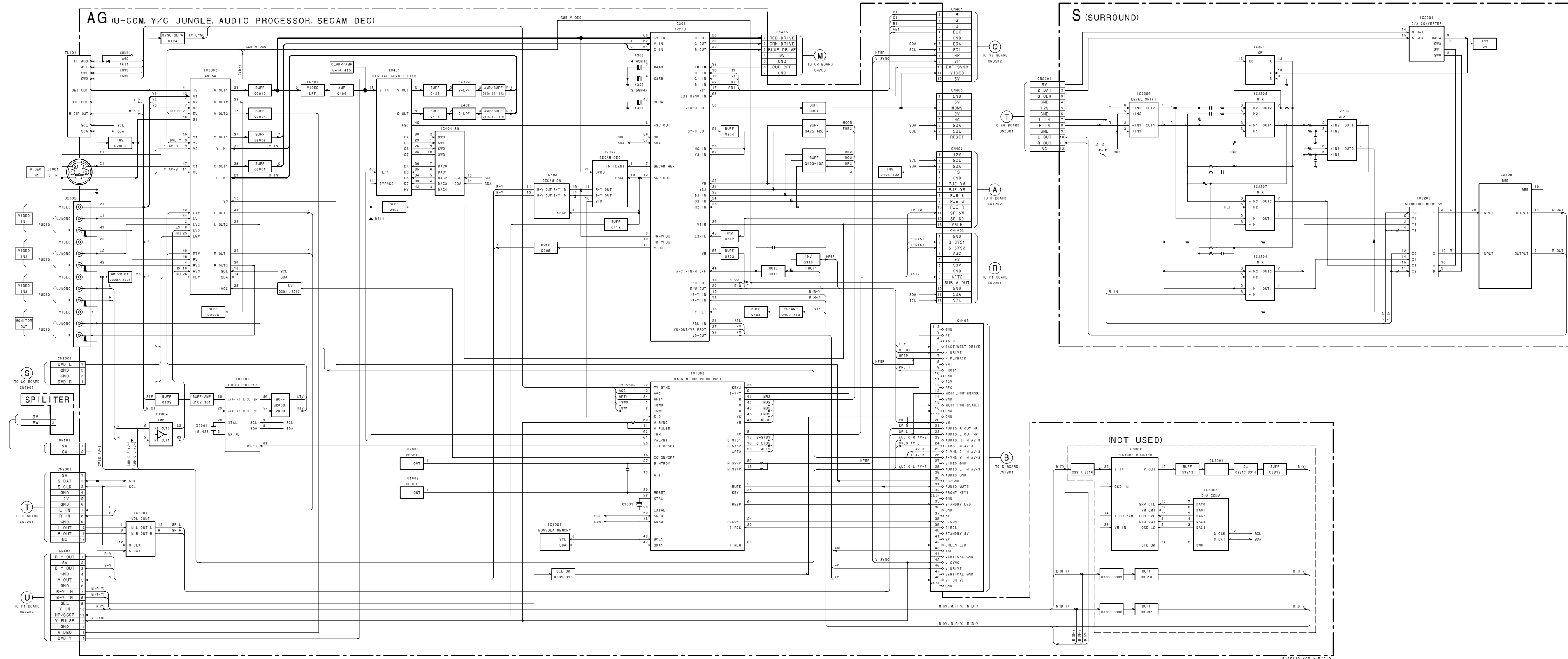
### SUB HUE ADJUSTMENT (SH1, SH2)

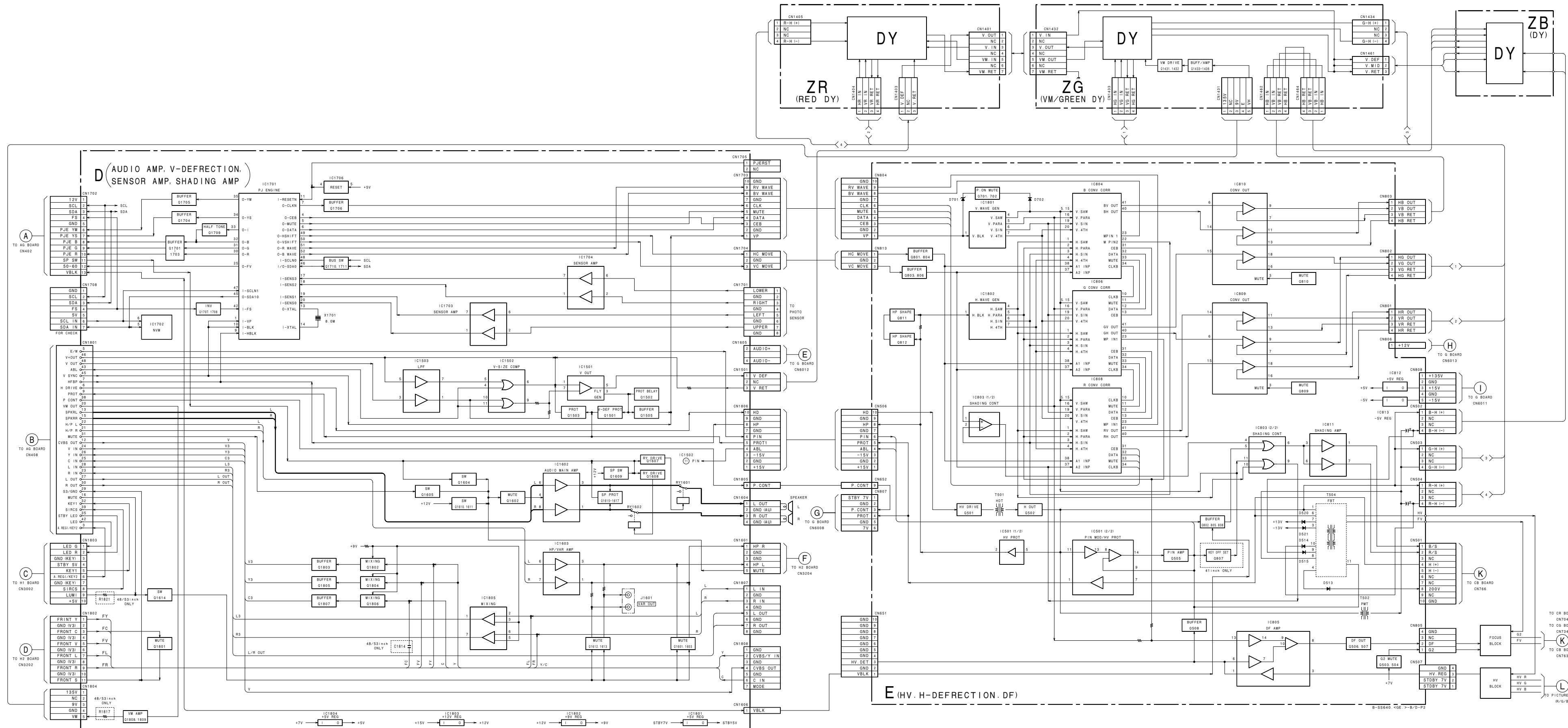
1. Input a PAL color-bar.
2. Set the following condition:  
PICTURE 90%, BRIGHTNESS 50%, COLOR 50%.
3. Connect an oscilloscope to the pin ④ (B OUT) of CN405, AG board.
4. Select 37 SH1 with [1] and [4] of the commander by setting to Service Mode and adjust to VB1=VB2=VB3=VB4 with [3] and [6].
5. Select Video1.

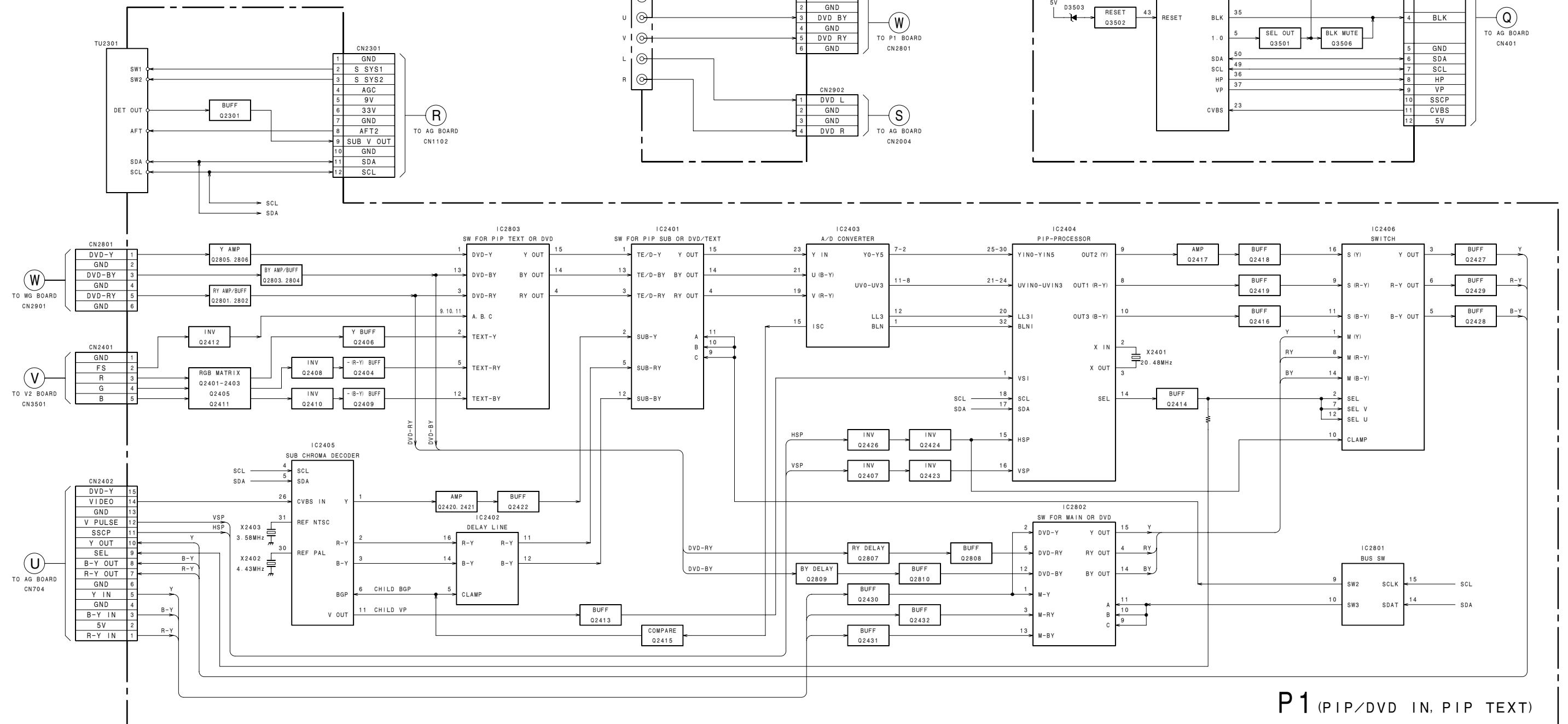
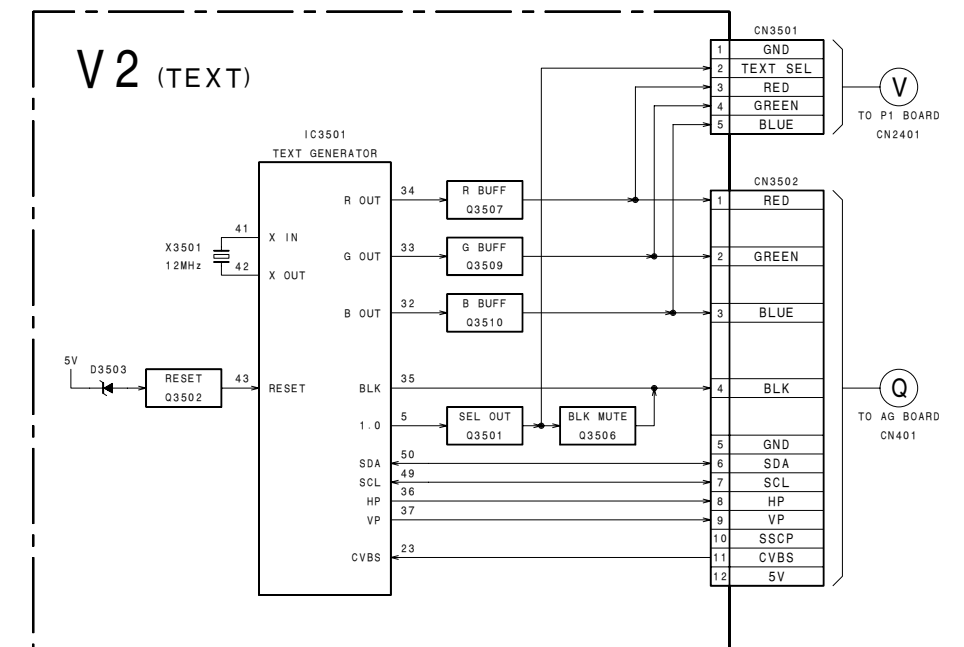
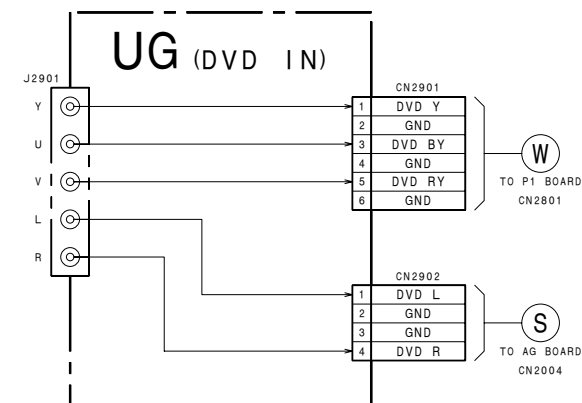


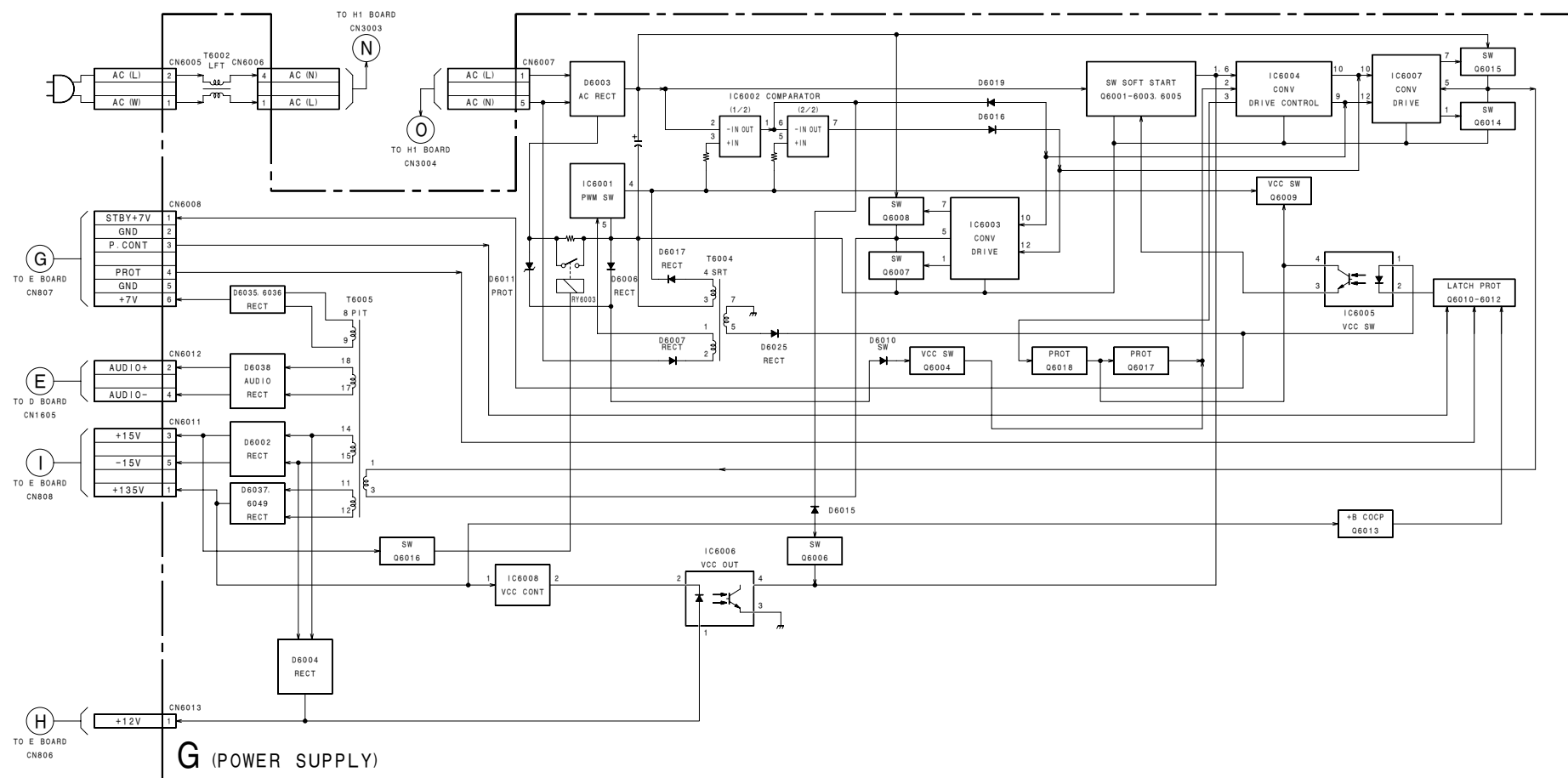
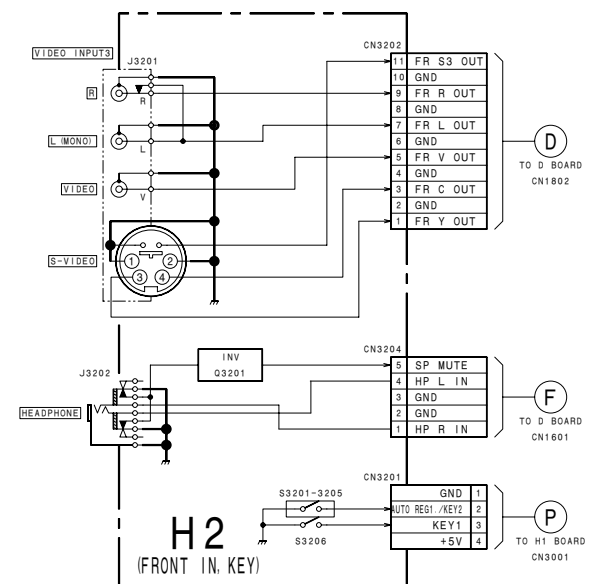
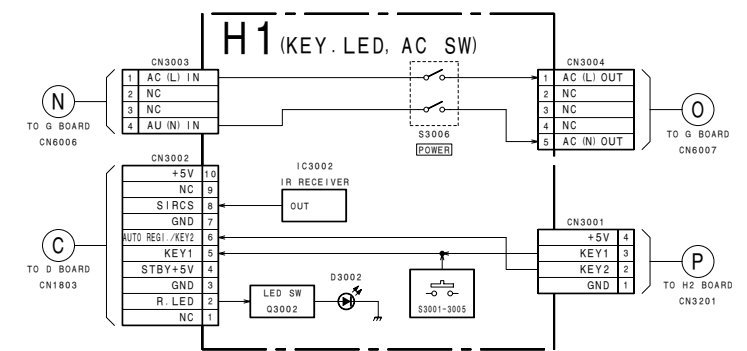
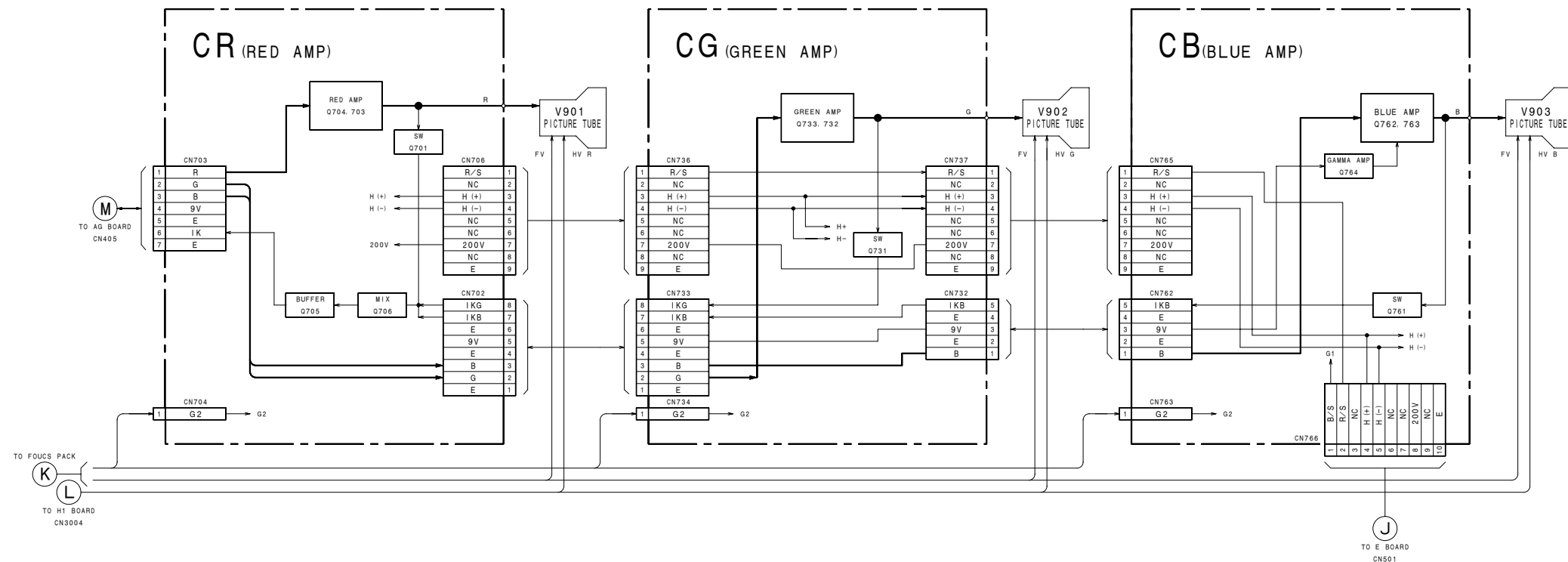
6. Input a PAL color-bar, video into video 1.
7. Adjust 38 SH2 as step 2 to 5.
8. Press [MUTING] → [0] of the commander to write the data.

## 6-1. BLOCK DIAGRAMS











This is a detailed electronic schematic diagram for a Philips 55040 color television set. The diagram illustrates the internal components and their electrical connections, organized into several functional blocks:

- Input Section:** Includes the **P1 (PIP/DVD IN. PIP TEXT)** and **UG (DVD IN)** input connectors at the top left.
- Video Processing:** Features the **CR (RED AMP)** and **CG (GREEN AMP)** video amplifiers, along with the **CB (BLUE AMP)** and **CB (BLUE AMP)** (labeled as such in the diagram).
- Audio Processing:** Includes the **AG (AUDIO PROCESSOR, U COM. Y/C JUNGLE, SECAM DEC. PICTURE BOOSTER)** and **D (AUDIO AMP, V-DEFLECTION, SENSOR AMP, SHADING AMP)** blocks.
- Power and Control:** Shows the **G (POWER SUPPLY)** section, including the **H1 (KEY, LED, AC SW)** and **H2 (FRONT IN KEY)** components, and the **G SHIELD CHASSIS** at the bottom right.
- Other Components:** Includes the **SP (SPEAKER)** section with **H1** and **H2** speakers, the **SP (SPEAKER)** section, and the **SP (SPEAKER)** section.

The diagram uses a complex network of lines to represent electrical connections between various components, including integrated circuits, resistors, capacitors, and connectors. Key components like the **CR (RED AMP)**, **CG (GREEN AMP)**, **CB (BLUE AMP)**, **AG (AUDIO PROCESSOR)**, and **D (AUDIO AMP)** are prominently labeled. The schematic also shows the **SP (SPEAKER)** section and the **G (POWER SUPPLY)** section, including the **H1 (KEY, LED, AC SW)** and **H2 (FRONT IN KEY)** components.

• KP-EF41

• KP-EF53

• KP-EF48



6-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. (pF:  $\mu\text{pF}$ )
- Capacitors without voltage indication are all 50 V.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm  
Rating electrical power 1/4 W (CHIP : 1/10 W)

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- $\Delta$  : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- $\perp$  : earth-ground.
- : earth-chassis.
- All voltages are in V.
- Readings are taken with a 10 M digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- \* : Can not be measured.
- NO MARK: Common
- < : SECAM
- ( ) : NTSC 3.58 MHz
- Circled numbers are waveform references.
- --- : B + bus.
- - - - : B + bus.
- : Signal path.

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

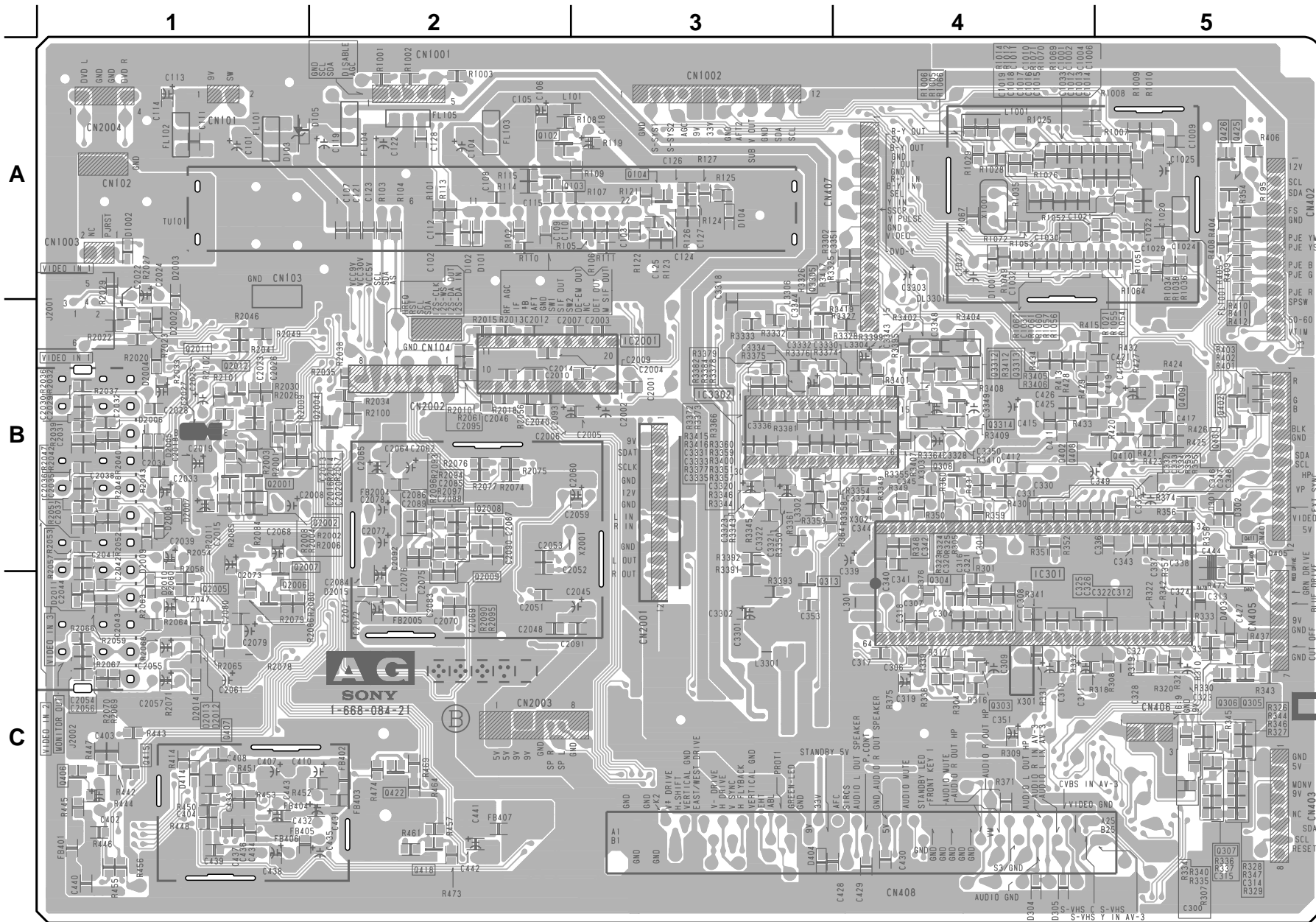
Terminal name of semiconductors in silk screen printed circuit (※)

Device	Printed symbol	Terminal name	Circuit
① Transistor		Collector Base Emitter	
② Transistor		Collector Base Emitter	
③ Diode		Cathode Anode (NC)	
④ Diode		Cathode Anode (NC)	
⑤ Diode		Cathode Anode (NC)	
⑥ Diode		Common Anode Cathode	
⑦ Diode		Common Anode Cathode	
⑧ Diode		Common Anode Cathode	
⑨ Diode		Common Anode Cathode	
⑩ Diode		Common Anode Cathode	
⑪ Diode		Common Anode Cathode	
⑫ Diode		Anode Anode Cathode Anode	
⑬ Transistor (FET)		Drain Source Gate	
⑭ Transistor (FET)		Drain Source Gate	
⑮ Transistor (FET)		Drain Source Gate	
⑯ Transistor		Emitter Collector Base	
⑰ Transistor		C1B1E1 C1B2E1 C1B2C1	
⑱ Transistor		C1B2E2 C1B2C2 C1B2C1	
⑲ Transistor		C1B2E2 C1B2C2 C1B2C1	
⑳ Transistor		C1B2E2 C1B2C2 C1B2C1	
㉑ Transistor		C1B2E2 C1B2C2 C1B2C1	
㉒ Transistor		C1B2E2 C1B2C2 C1B2C1	
㉓ Transistor		C1B2E2 C1B2C2 C1B2C1	
— Discrete semiconductor			

(Chip semiconductors that are not actually used are included.)

Ver.1.1

— AG BOARD (Conductor Side) —

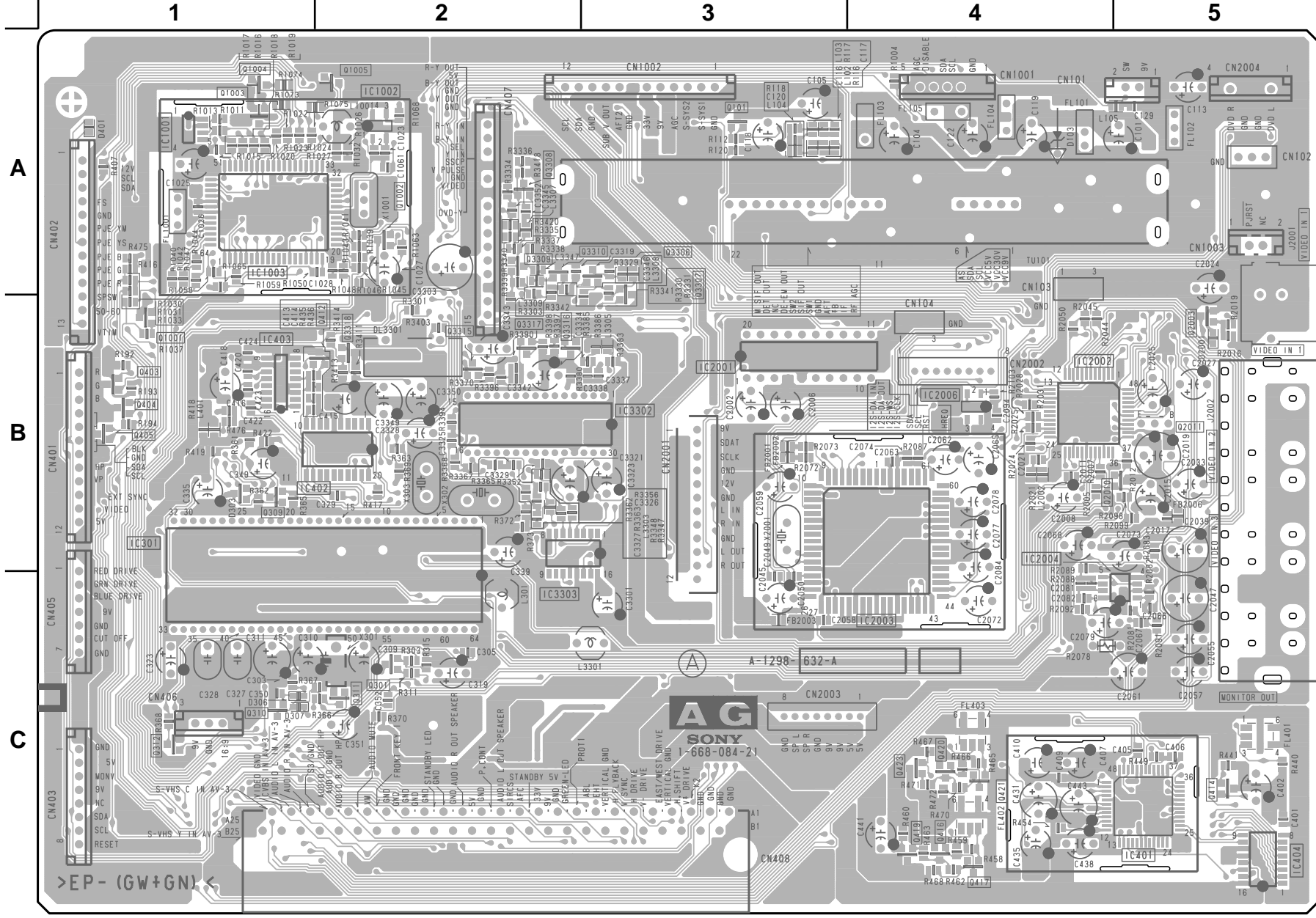


• AG BOARD SEMICONDUCTOR LOCATION

IC	Q425	A-5	①
(Conductor Side) (Component Side) *	Q426	A-5	①
IC301	B-4	B-1	①
IC401	C-5	Q2003	①
IC402	B-2	Q2004	①
IC403	B-1	Q2005	①
IC404	C-5	Q2006	①
IC1001	A-1	Q2007	①
IC1002	A-2	Q2008	①
IC1003	A-1	Q2009	①
IC2001	B-3	Q2010	①
IC2002	B-4	Q2011	①
IC2003	C-4	Q2012	①
IC2004	C-4		
IC2006	B-4		
TRANSISTOR	DIODE	CRYSTAL	
(Conductor Side) (Component Side) *	(Conductor Side) (Component Side) *	(Conductor Side) (Component Side)	
Q101	D101	A-2	①
Q102	D102	A-2	①
Q103	D104	A-3	①
Q104	D301	B-5	①
Q301	D306	C-1	①
Q303	D401	A-1	①
Q304	D402	B-4	①
Q306	D403	C-5	①
Q309	D414	C-1	①
Q310	D2001	B-1	①
Q311	D2002	B-1	①
Q312	D2003	A-1	①
Q313	D2004	B-1	①
Q401	D2005	B-1	①
Q402	D2006	B-1	①
Q403	D2007	B-1	①
Q404	D2008	B-1	①
Q405	D2009	B-1	①
Q406	D2010	B-1	①
Q407	D2011	C-1	①
Q408	D2012	C-1	①
Q409	D2013	C-1	①
Q410	D2014	C-1	①
Q412	D2015	C-2	①
Q414	B-2		①
Q415	C-5		①
Q416	C-4		①
Q417	C-4		①
Q418	C-2		①
Q419	C-4	X301	C-4
Q420	C-4	X302	B-4
Q421	C-4	X303	B-4
Q422	C-2	X1001	A-4
Q423	C-4	X2001	B-2

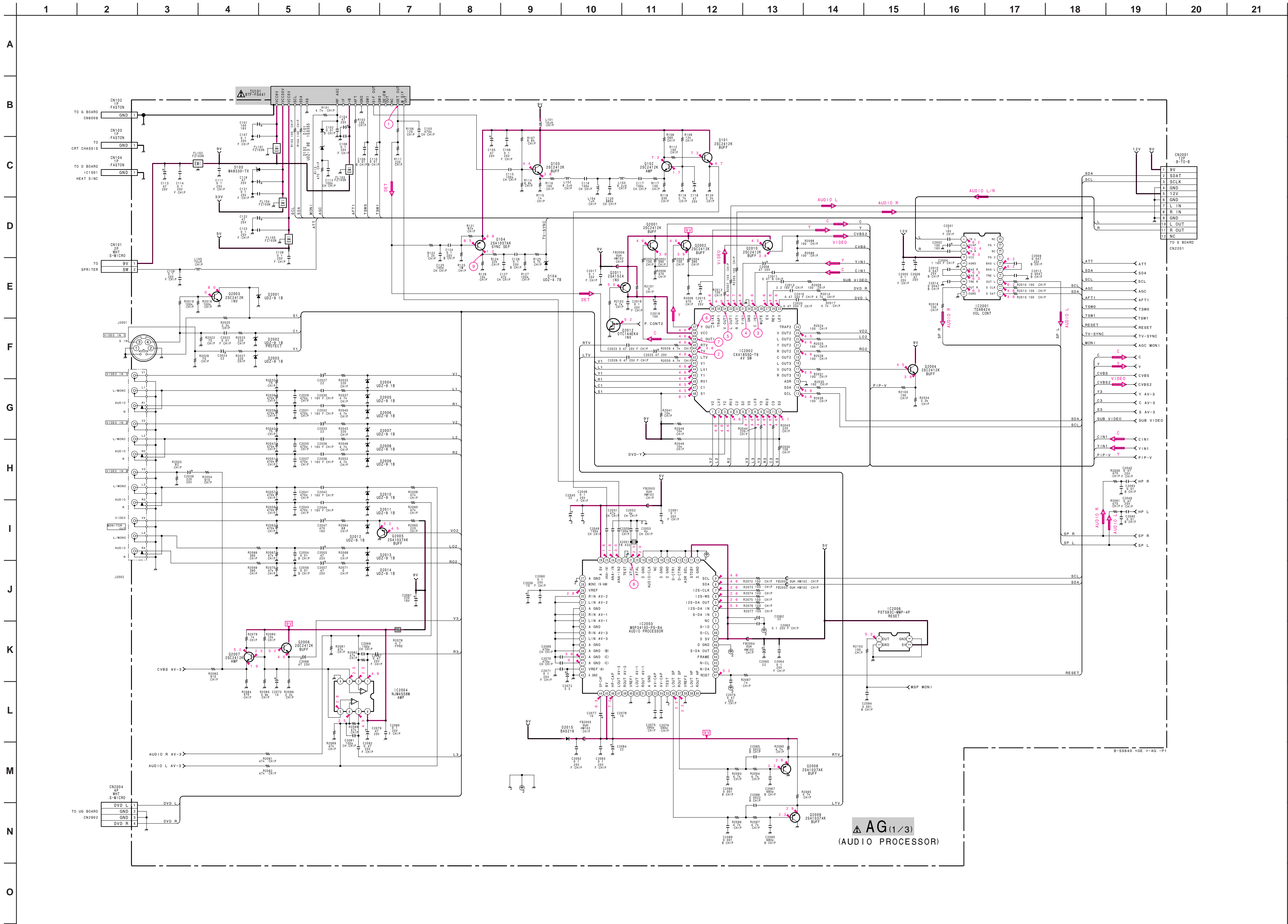
※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

— AG BOARD (Component Side) —





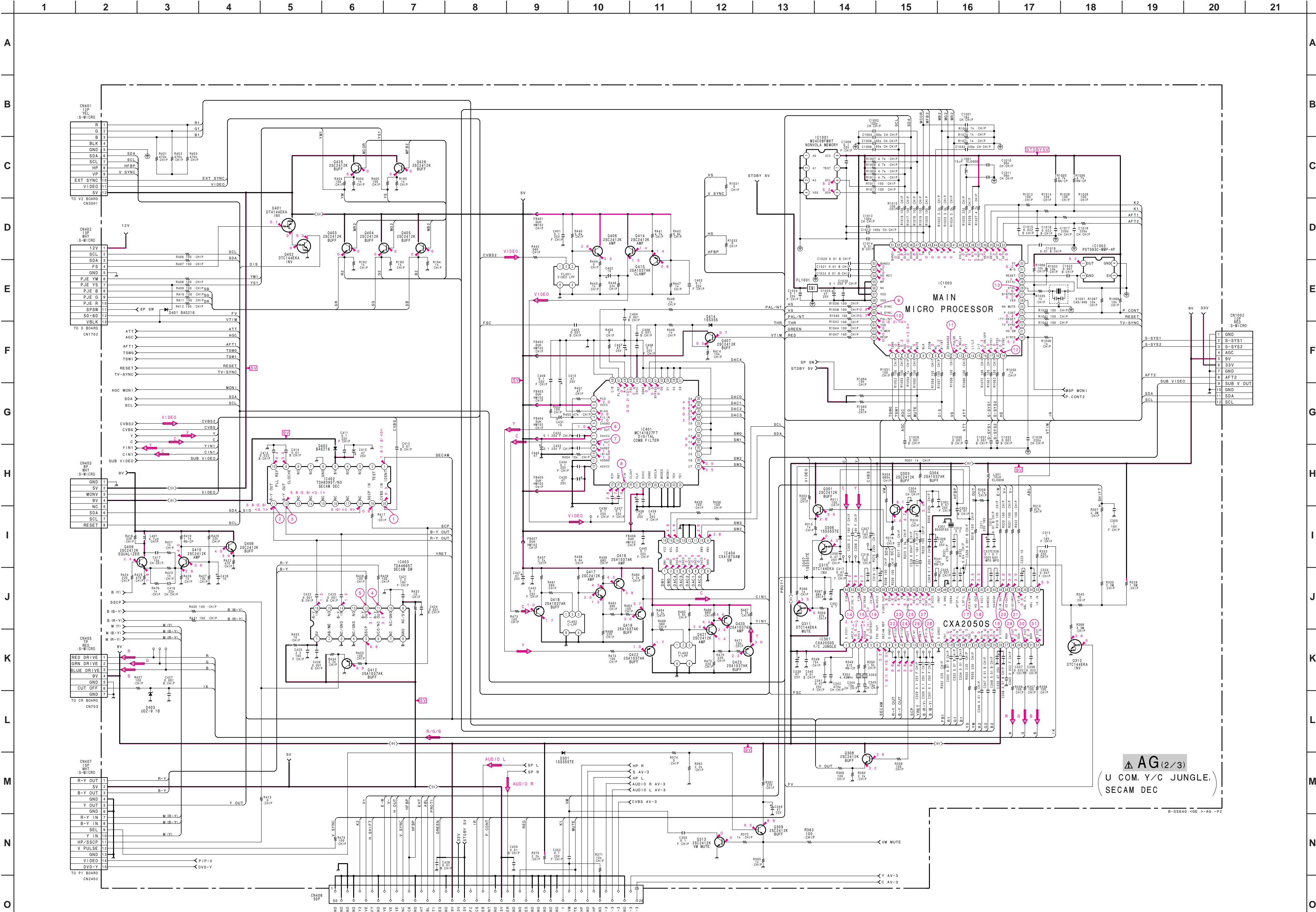
(1) Schematic Diagram of AG (1/3) Board



• AG (1/3) BOARD WAVEFORMS

① PAL 1.4 Vp-p (H)	① NTSC 1.6 Vp-p (H)	① SECAM 1.5 Vp-p (H)	② PAL 0.9 Vp-p (H)	② NTSC 1.0 Vp-p (H)	② SECAM 1.0 Vp-p (H)
③ PAL 0.9 Vp-p (H)	③ NTSC 1.5 Vp-p (H)	③ SECAM 2.2 Vp-p (H)	④ PAL 1.5 Vp-p (H)	④ NTSC 1.8 Vp-p (H)	④ SECAM 1.7 Vp-p (H)
⑤ PAL 1.8 Vp-p (H)	⑤ NTSC 2.0 Vp-p (H)	⑤ SECAM 1.7 Vp-p (H)	⑥ PAL 1.5 Vp-p (H)	⑥ NTSC 1.7 Vp-p (H)	⑥ SECAM 1.7 Vp-p (H)
⑦ PAL 0.9 Vp-p (H)	⑦ NTSC 1.6 Vp-p (H)	⑦ SECAM 2.3 Vp-p (H)	⑧ 1.4 Vp-p (18.432 MHz)	⑨ 8.4 Vp-p (H)	

(2) Schematic Diagram of AG (2/3) Board



• AG BOARD \* MARK LIST

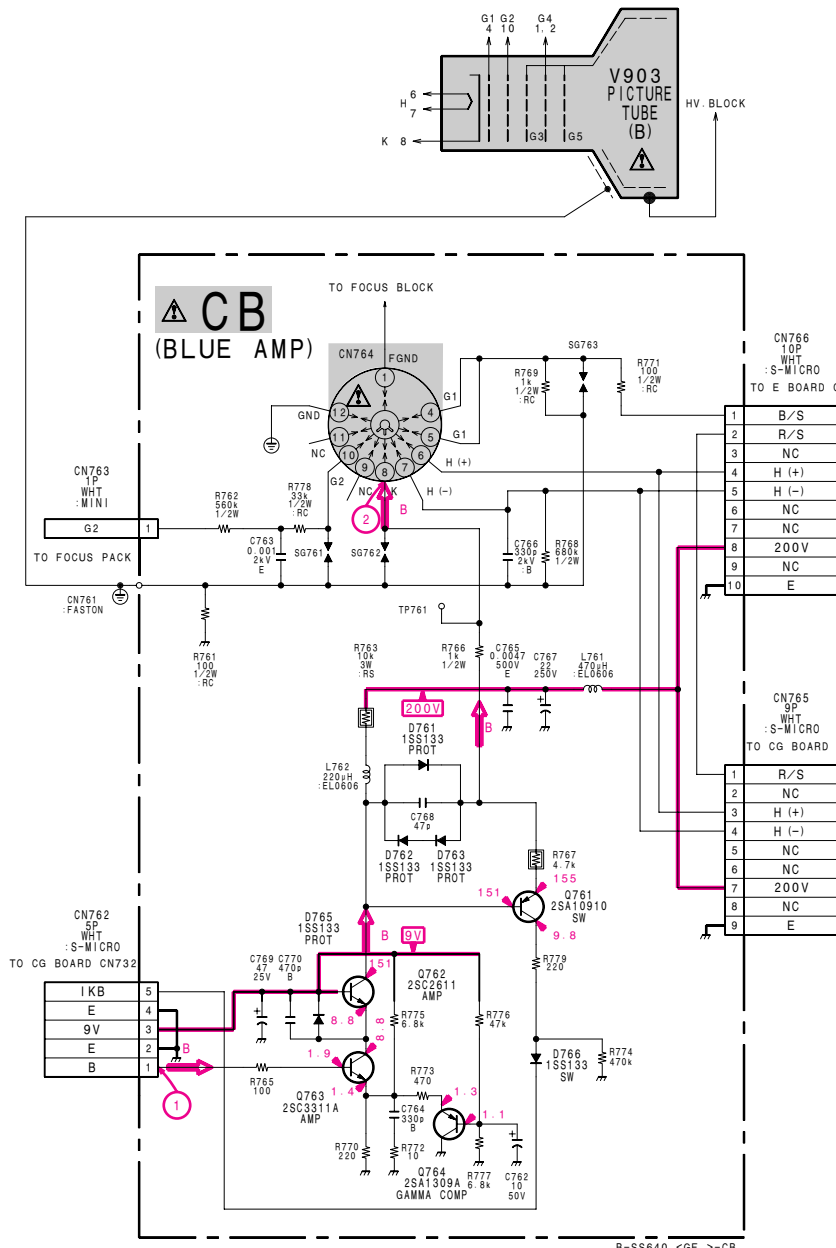
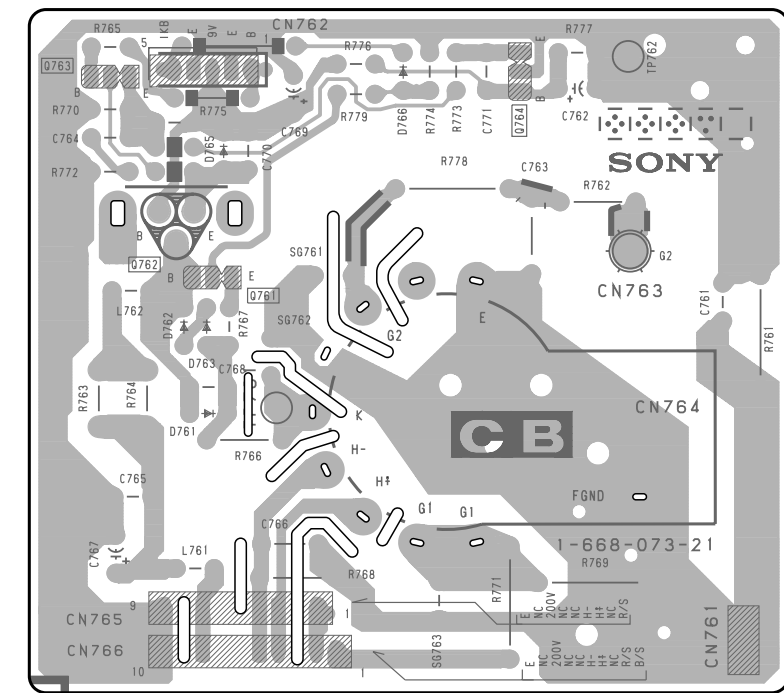
Ref No.	GE / HK / AUS MODEL	ME MODEL
IC1003	CXP85452-214Q-TL	CXP85452-215Q-TL

• AG (2/3) BOARD WAVEFORMS

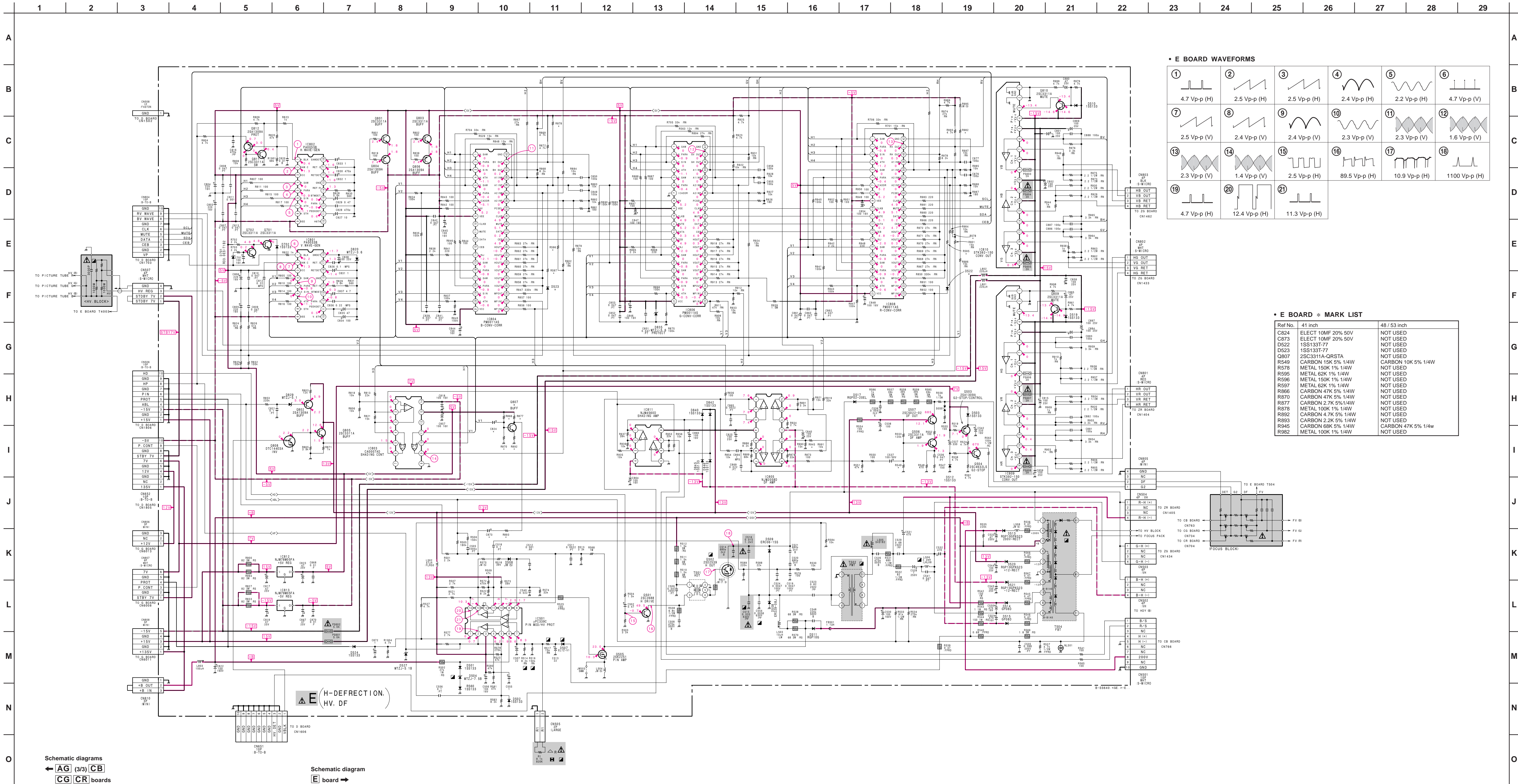
① PAL 0.9 Vp-p (H)	① NTSC 1.0 Vp-p (H)	① SECAM 0.9 Vp-p (H)	② PAL : 0.6 Vp-p (H) SECAM: 1.1 Vp-p (H)	② NTSC 0.7 Vp-p (H)	③ PAL : 0.7 Vp-p (H) SECAM: 1.5 Vp-p (H)	③ NTSC 0.8 Vp-p (H)	④ PAL/SECAM 1.1 Vp-p (H)
④ NTSC 1.3 Vp-p (H)	⑤ PAL/SECAM 1.4 Vp-p (H)	⑤ NTSC 1.6 Vp-p (H)	⑥ PAL 0.9 Vp-p (H)	⑥ NTSC 1.0 Vp-p (H)	⑥ SECAM 1.0 Vp-p (H)	⑦ PAL 0.5 Vp-p (H)	⑦ NTSC 0.6 Vp-p (H)
⑦ SECAM 1.0 Vp-p (H)	⑧ PAL 1.5 Vp-p (H)	⑧ NTSC 1.8 Vp-p (H)	⑧ SECAM 1.6 Vp-p (H)	⑨ PAL 4.6 Vp-p (H)	⑩ NTSC 5.3 Vp-p (V)	⑪ PAL 5.3 Vp-p (V)	⑫ SECAM 4.6 Vp-p (H)
⑬ PAL 5.0 Vp-p (4MHz)	⑭ PAL 0.5 Vp-p (H)	⑭ NTSC 1.0 Vp-p (H)	⑭ SECAM 1.2 Vp-p (H)	⑮ PAL 0.8 Vp-p (H)	⑮ NTSC 1.0 Vp-p (H)	⑮ SECAM 1.0 Vp-p (H)	⑮ PAL 0.9 Vp-p (H)
⑮ NTSC 1.0 Vp-p (H)	⑮ SECAM 1.0 Vp-p (H)	⑮ PAL 4.8 Vp-p (H)	⑮ SECAM 4.9 Vp-p (H)	⑮ PAL 0.5 Vp-p (V)	⑮ NTSC 1.3 Vp-p (V)	⑮ SECAM 1.3 Vp-p (V)	⑮ PAL : 0.6 Vp-p (H) SECAM: 1.1 Vp-p (H)
⑮ NTSC 0.7 Vp-p (H)	⑮ PAL : 0.7 Vp-p (H) SECAM: 1.5 Vp-p (H)	⑮ NTSC 0.8 Vp-p (H)	⑮ PAL/SECAM 1.0 Vp-p (H)	⑮ NTSC 1.1 Vp-p (H)	⑮ PAL/SECAM 4.5 Vp-p (H)	⑮ PAL/SECAM 0.9 Vp-p (H)	⑮ NTSC 1.1 Vp-p (H)
⑮ PAL/SECAM 1.1 Vp-p (H)	⑮ NTSC 1.3 Vp-p (H)	⑮ PAL/SECAM 1.4 Vp-p (H)	⑮ NTSC 1.6 Vp-p (H)	⑮ PAL/SECAM 3.4 Vp-p (H)	⑮ NTSC 4.2 Vp-p (H)	⑮ PAL/SECAM 3.4 Vp-p (H)	⑮ NTSC 3.8 Vp-p (H)
⑮ PAL/SECAM 3.4 Vp-p (H)	⑮ NTSC 3.8 Vp-p (H)						



— CB BOARD —



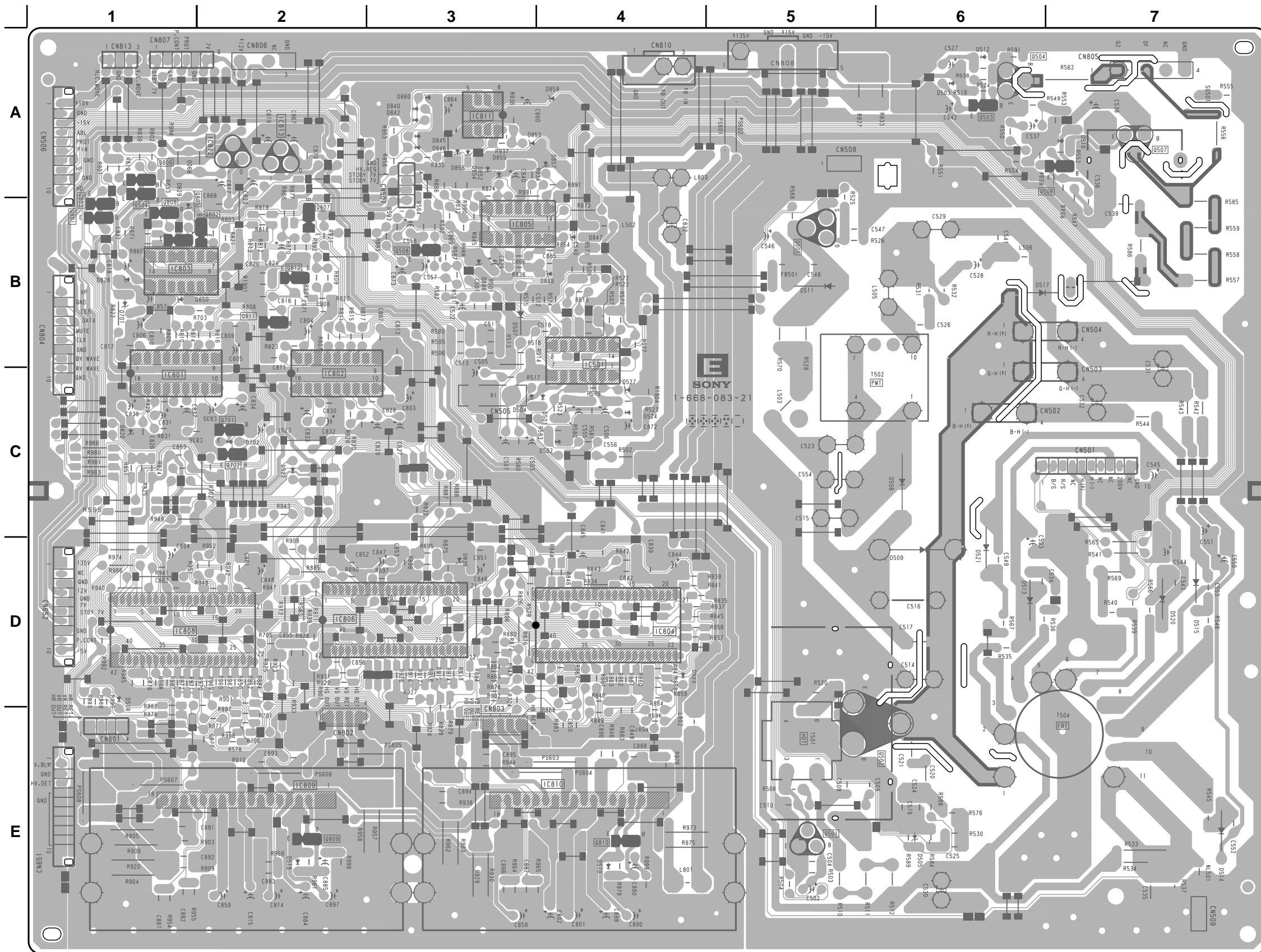
(4) Schematic Diagram of E Board





— E BOARD —

**E** [H-DEFRECTION,  
HV, DF]

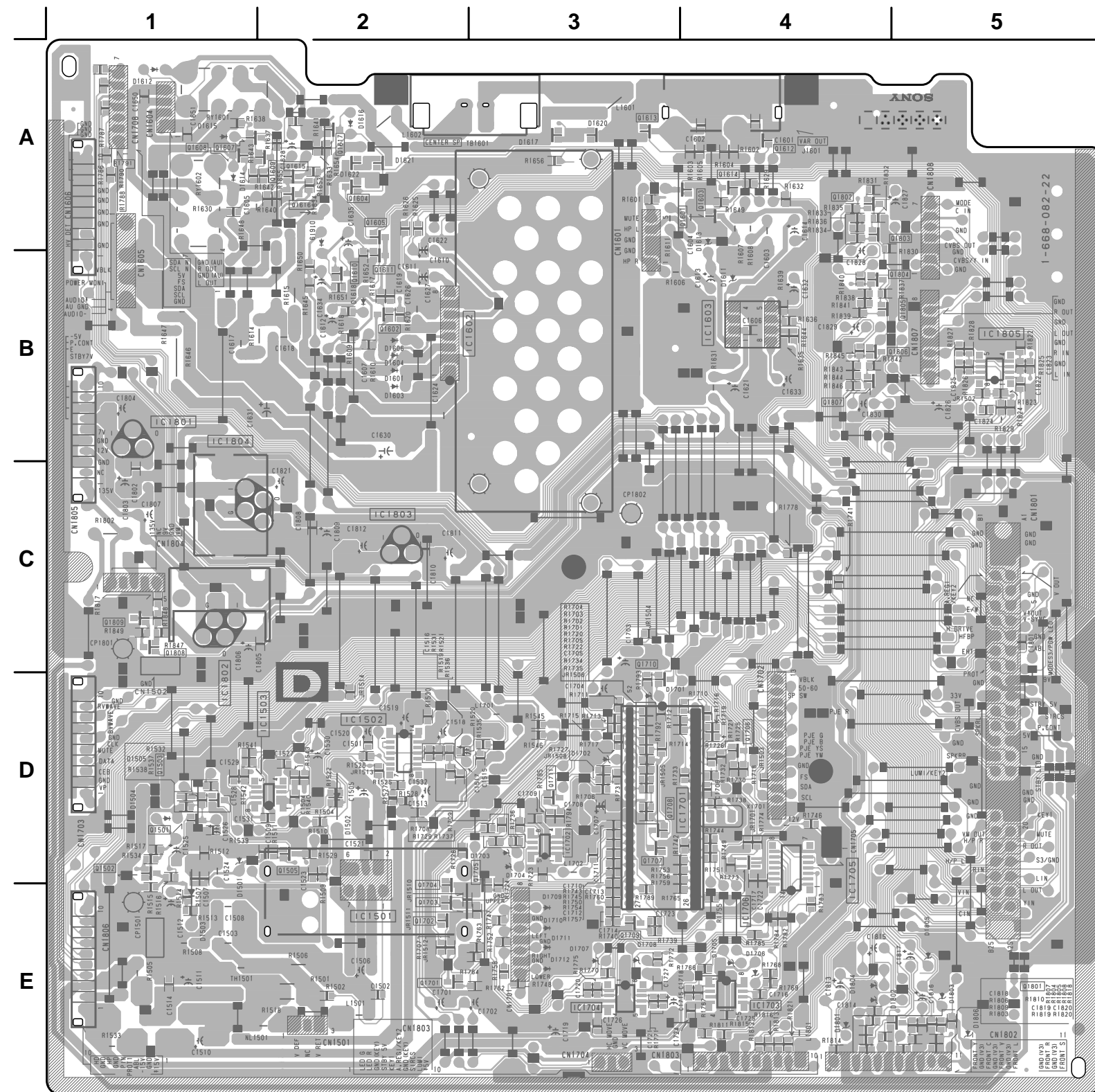


• E BOARD SEMICONDUCTOR LOCATION

IC		Q810	E-4
		Q811	B-2
		Q812	B-2
		DIODE	
IC501	B-3		*
IC801	B-1		
IC802	B-2		
IC803	B-1		
IC804	D-4		
IC805	B-3		
IC806	D-2	D501	B-3
IC808	D-1	D502	C-3
IC809	E-2	D503	A-5
IC810	E-3	D504	B-3
IC811	A-3	D507	B-3
IC812	A-2	D508	C-5
IC813	A-2	D509	C-5
		D510	E-4
		D511	B-5
		D512	A-6
		D513	C-6
		D514	E-7
		D515	C-7
		D517	B-6
		D519	E-2
		D520	C-7
		D521	C-6
		D522	C-2
		D523	D-4
		D524	C-4
		D527	B-4
		D701	B-1
		D702	C-2
		D820	C-1
		D829	A-1
		D835	C-3
		D840	A-3
		D842	A-3
		D845	A-3
		D846	A-3
TRANSISTOR			
	*		
Q501	E-5		
Q502	D-5		
Q503	A-6		
Q504	A-6		
Q505	B-5		
Q506	A-6		
Q507	A-6		
Q701	C-2		
Q702	C-2		
Q801	A-1		
Q802	B-1		
Q803	A-1		
Q804	A-1		
Q805	B-1		
Q806	A-1		
Q807	A-2		
Q808	A-1		
Q809	E-2		

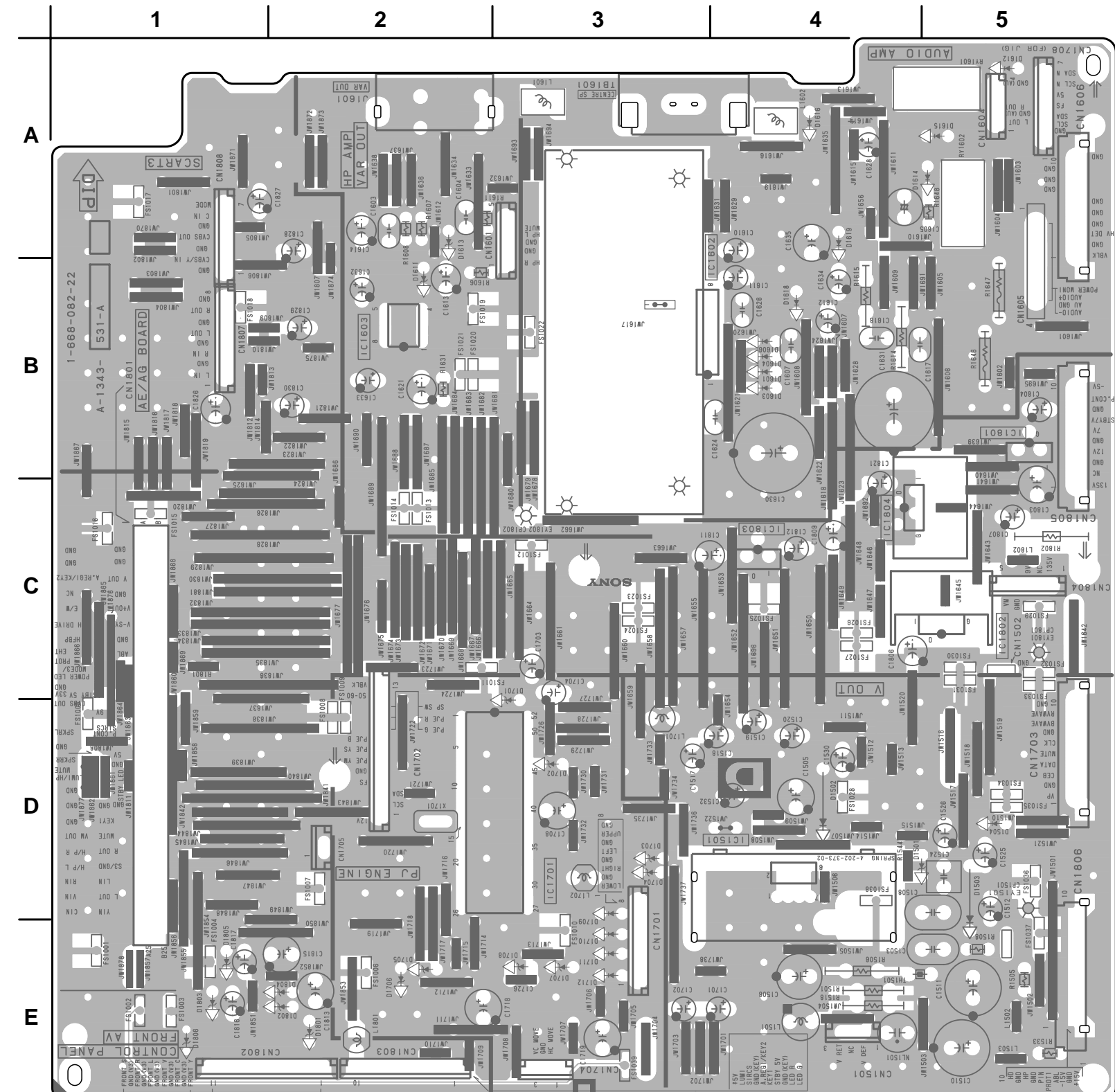
※: Refer to Terminal name of semiconductors in silk  
screen printed circuit (see page 63)








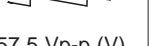
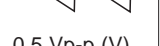

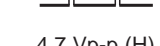
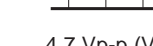


IC				Q1711 D-3		①
(Conductor Side)		(Component Side)				
IC1501	E-2	D-4		Q1801	E-4	①
IC1502	D-2			Q1802	A-4	①
IC1503	D-2			Q1803	A-4	①
IC1602	B-2			Q1804	B-4	①
IC1603	B-4	B-4		Q1805	B-4	①
IC1701	D-3	D-3		Q1806	B-4	①
IC1702	D-3			Q1807	B-4	①
IC1703	E-4			Q1808	C-1	①
IC1704	E-3			Q1809	C-1	①
IC1706	D-4			DIODE		
IC1801	B-1	B-5		(Conductor Side) (Component Side)*		
IC1802	C-1	C-5		D1501	D-1	D-4 —
IC1803	C-2	C-4		D1502	D-2	D-4 —
IC1804	C-1	C-4		D1503	D-1	D-5 —
IC1805	B-5			D1504	D-1	D-5 —
TRANSISTOR				D1505	D-1	③
				D1601	B-2	B-4 —
				D1603	B-2	B-4 —
				D1604	B-2	B-4 —
				D1606	B-2	B-4 —
				D1611	B-4	B-2 —
				D1612	A-1	A-5 —
				D1613	A-4	A-2 —
				D1614	A-1	A-4 —
				D1615	A-1	A-5 —
				D1616	A-2	A-4 —
				D1617	A-3	④
				D1618	B-2	B-4 —
				D1619	A-2	A-4 —
				D1620	A-3	④
				D1621	A-2	④
				D1622	A-2	④
				D1703	D-3	D-3 —
				D1704	D-3	D-3 —
				D1705	E-4	E-2 —
				D1706	E-4	E-2 —
				D1707	E-3	E-3 —
				D1708	E-3	E-3 —
				D1709	E-3	E-3 —
				D1710	E-3	E-3 —
				D1711	E-3	E-3 —
				D1712	E-3	E-3 —
				D1801	E-4	E-2 —
				D1802	E-4	E-2 —
				D1803	E-5	E-1 —
				D1804	E-4	E-2 —
				D1805	E-5	E-1 —
				D1806	E-5	E-1 —

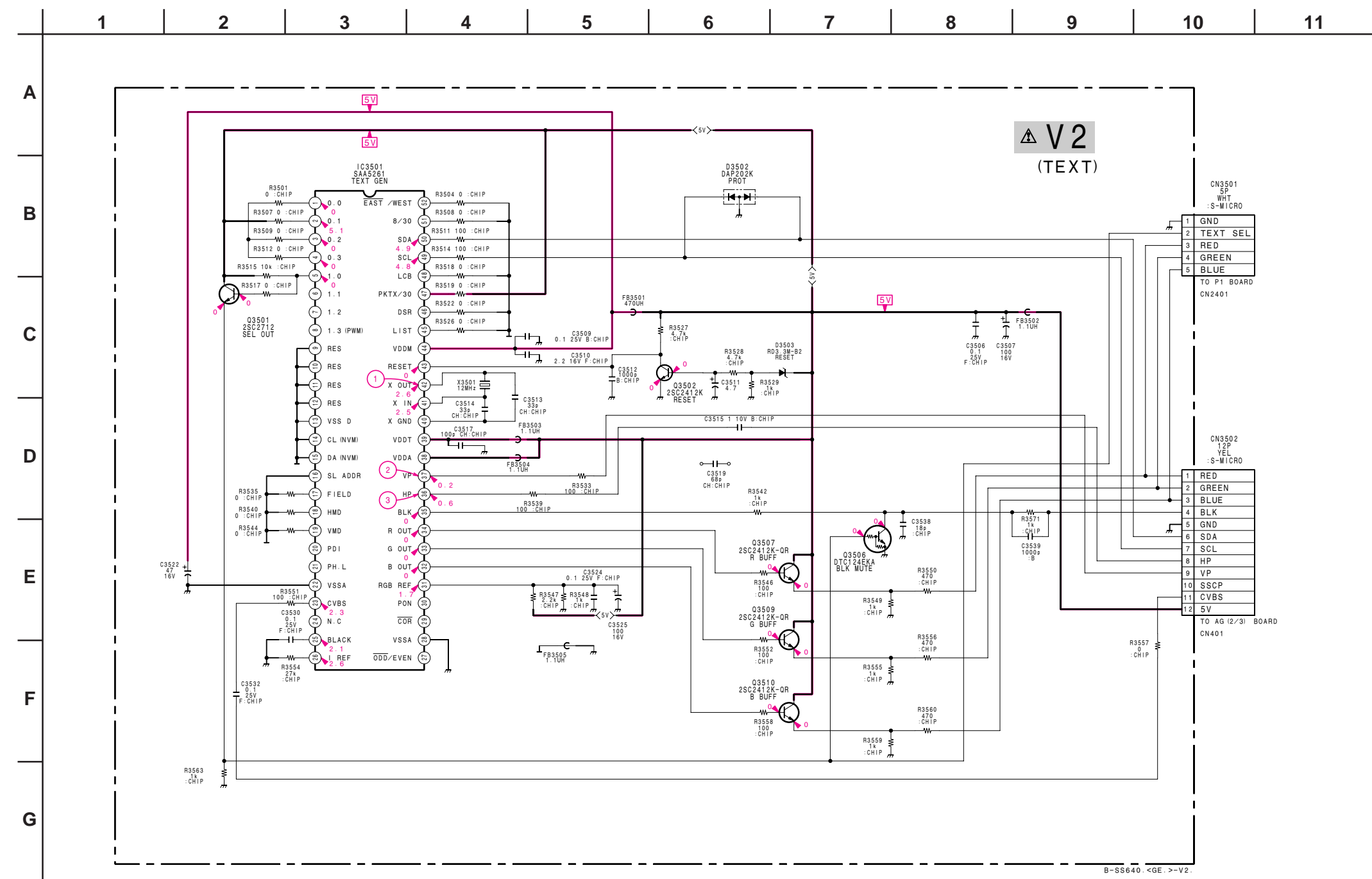
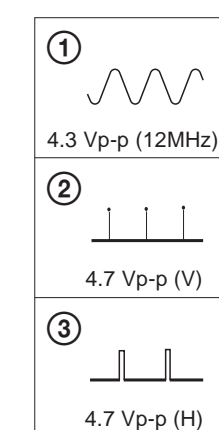
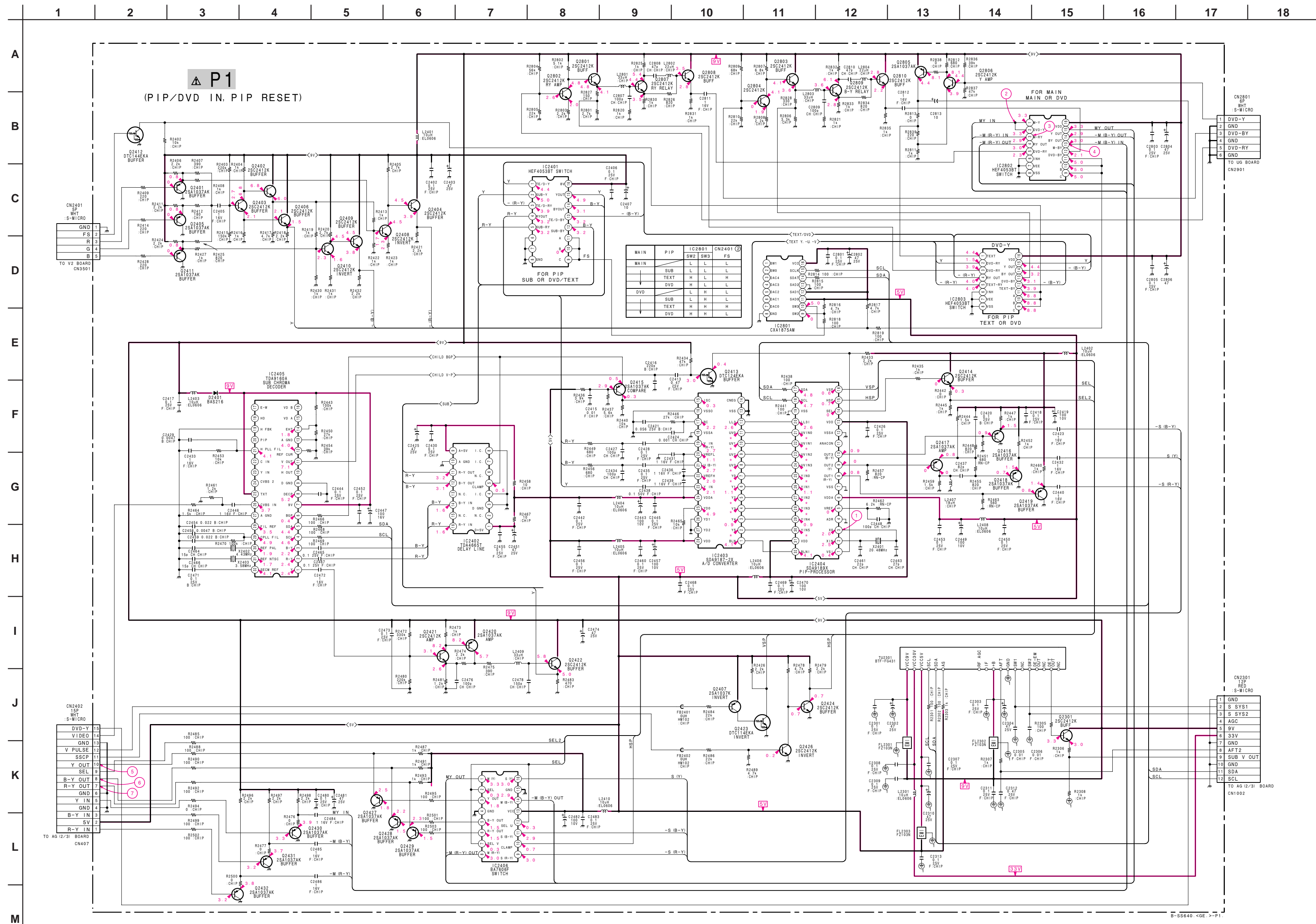
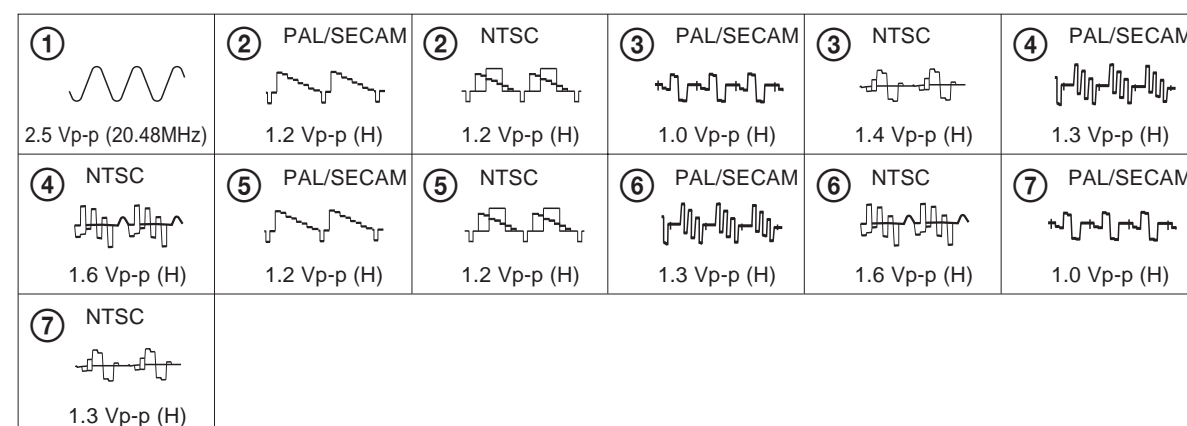
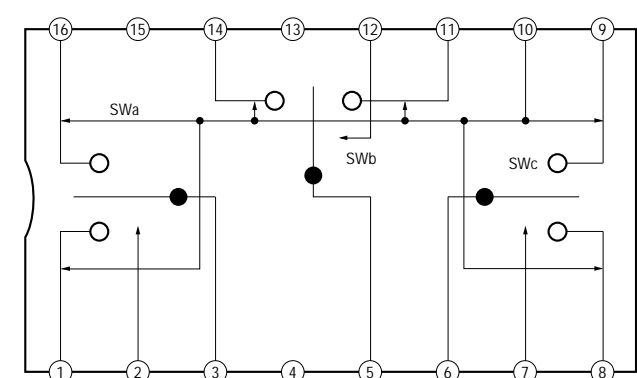
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<p>①</p>  <p>57.5 Vp-p (V)</p>	<p>②</p>  <p>0.5 Vp-p (V)</p>	<p>③</p>  <p>0.5 Vp-p (V)</p>	<p>④</p>  <p>4.7 Vp-p (H)</p>	<p>⑤</p>  <p>4.7 Vp-p (V)</p>
<p>⑥</p>  <p>3.6 Vp-p (8 MHz)</p>	<p>⑦</p>  <p>4.7 Vp-p (V)</p>	<p>⑧</p>  <p>4.7 Vp-p (H)</p>	<p>⑨</p>  <p>1.3 Vp-p (V)</p>	<p>⑩</p>  <p>1.3 Vp-p (V)</p>

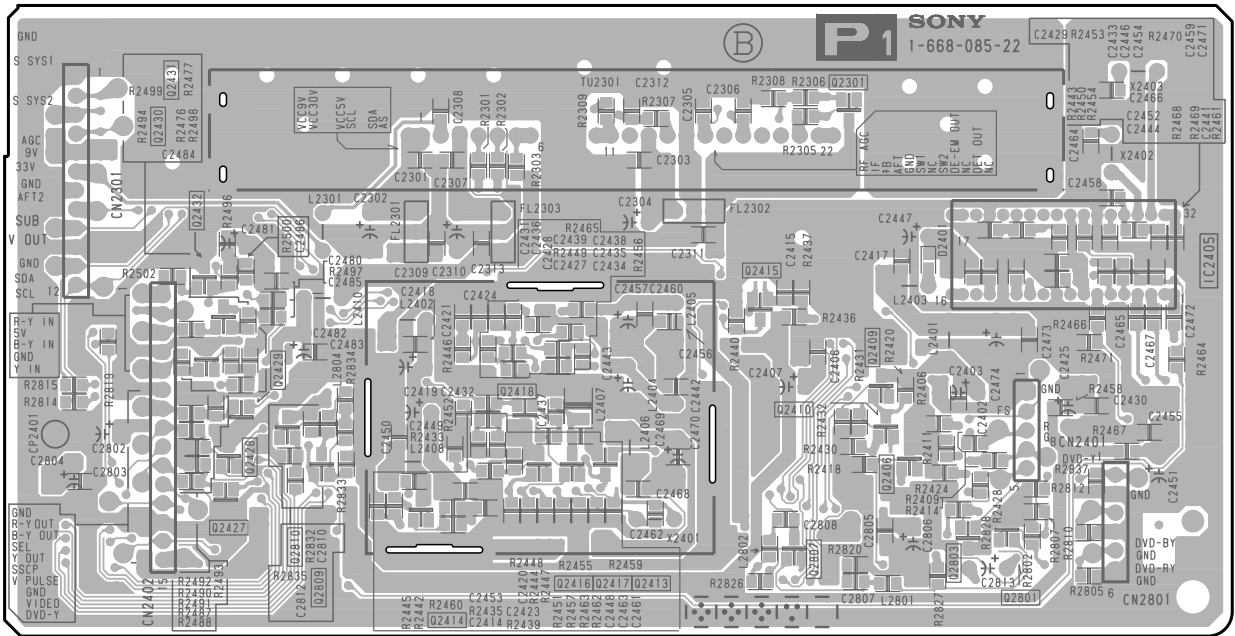
**D** (AUDIO AMP, V-DEFLECTION,  
SENSOR AMP, SHADING AMP)



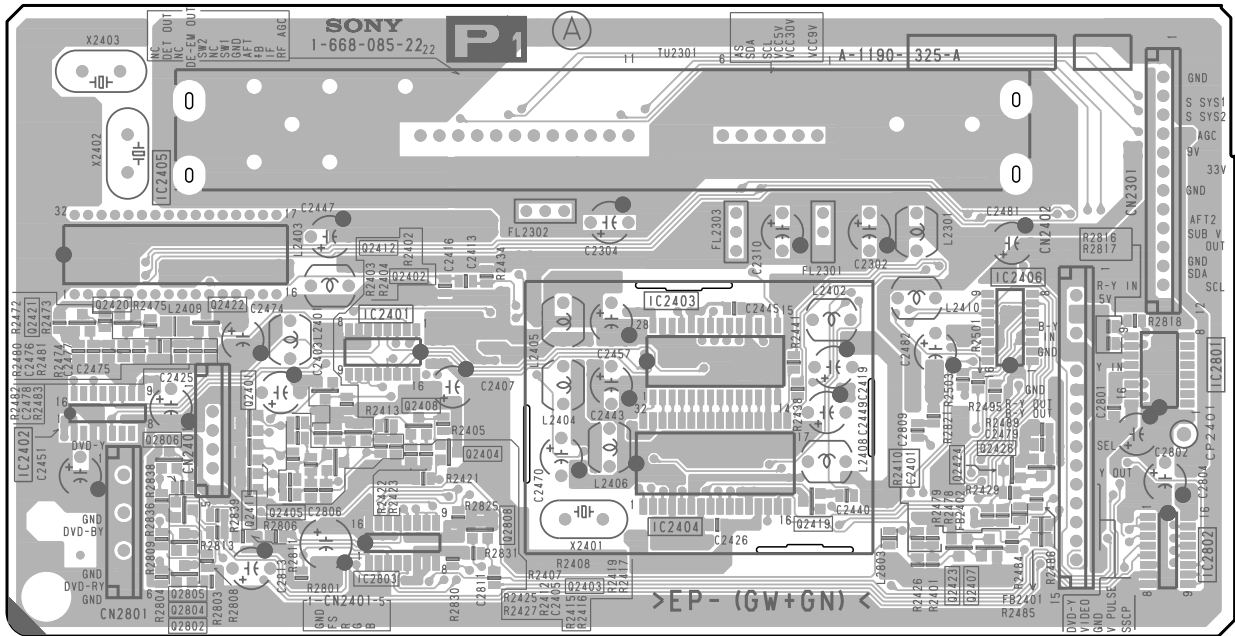


**P1** [ PIP/DVD IN,  
PIP TEXT ] **V2** [ TEXT ]

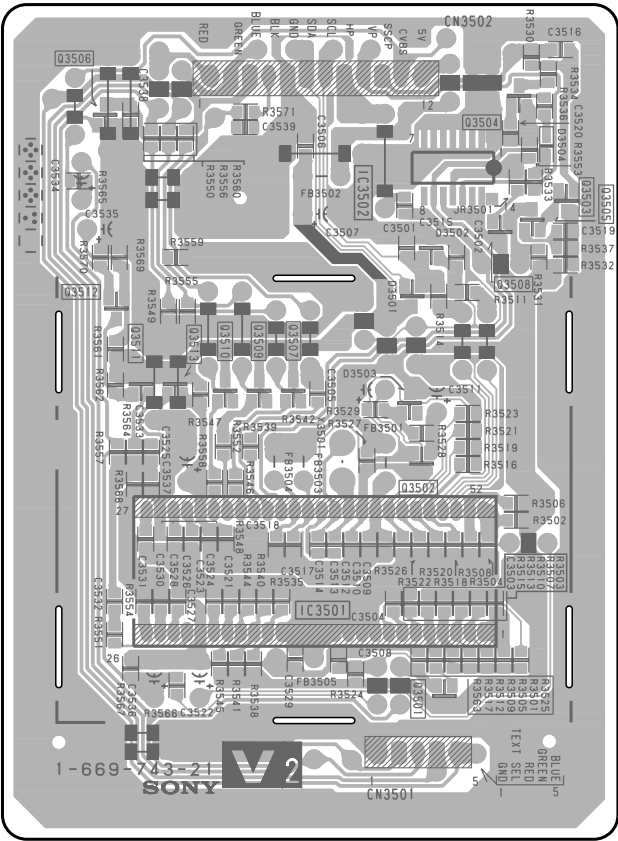
— P1 BOARD (Conductor Side) —



— P1 BOARD (Component Side) —



— V2 BOARD —



**V2 BOARD**  
Terminal name of semiconductors  
in silk screen printed circuit (\*)

Ref.	*
D3502	⑩
D3503	④
Q3501, Q2502, Q3506, Q3507, Q3509, Q3510	①

※: Refer to Terminal name of  
semiconductors in silk screen  
printed circuit (see page 63)

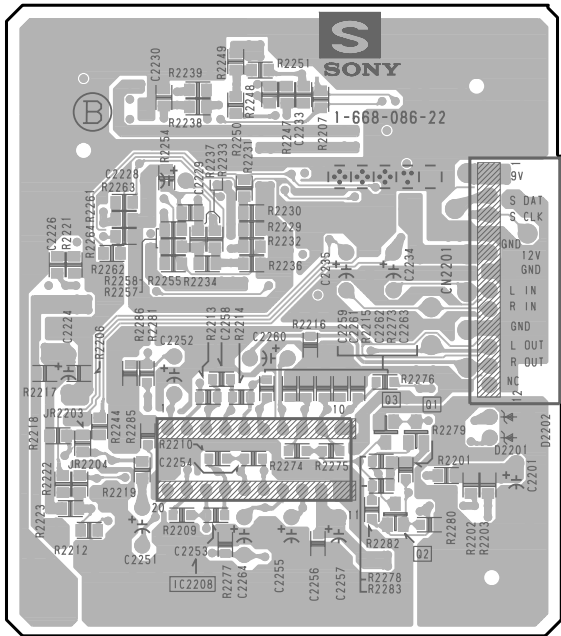
**P1 BOARD**  
Terminal name of semiconductors  
in silk screen printed circuit (\*)

Ref.	*
D2401	③
Q2301, Q2406, Q2409, Q2410, Q2413-Q2418, Q2427-Q2432, Q2801, Q2803, Q2807, Q2809, Q2810	①
Q2401-Q2405, Q2407, Q2408, Q2411, Q2412, Q2419-Q2424, Q2426, Q2802, Q2804-Q2806, Q2808	②

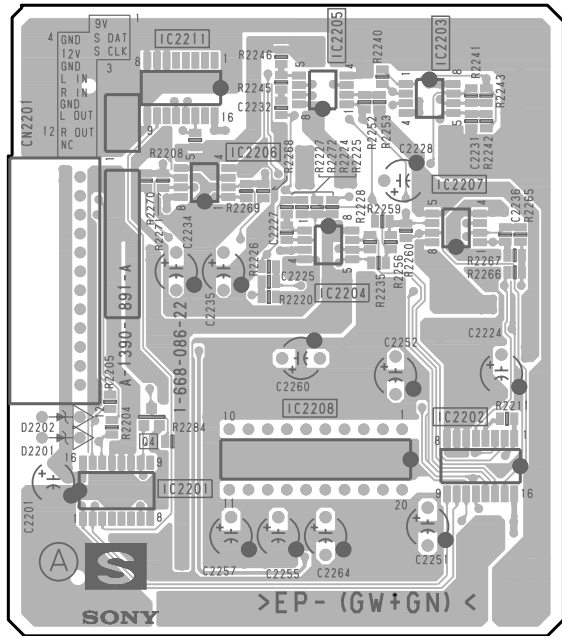
※: Refer to Terminal name of  
semiconductors in silk screen  
printed circuit (see page 63)

**S** [SURROUND] **ZG** [VM/GREEN DY]

— S BOARD (Conductor Side) —



— S BOARD (Component Side) —

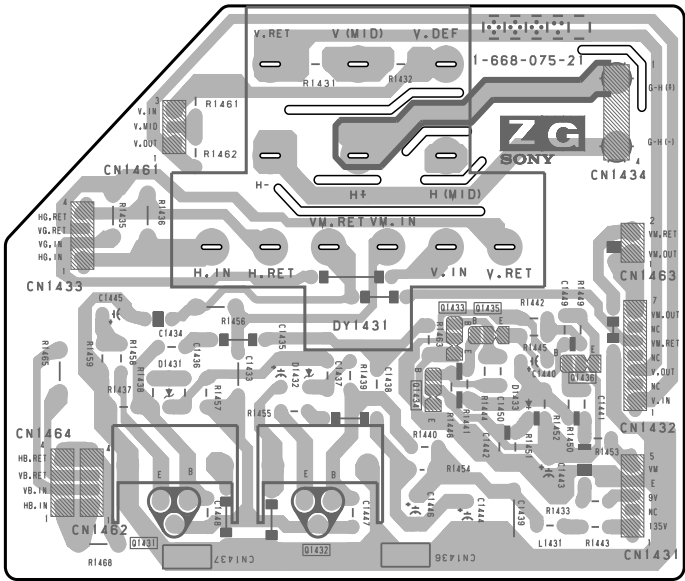


**S BOARD**  
Terminal name of semiconductors  
in silk screen printed circuit (\*)

Ref.	*
Q4	②

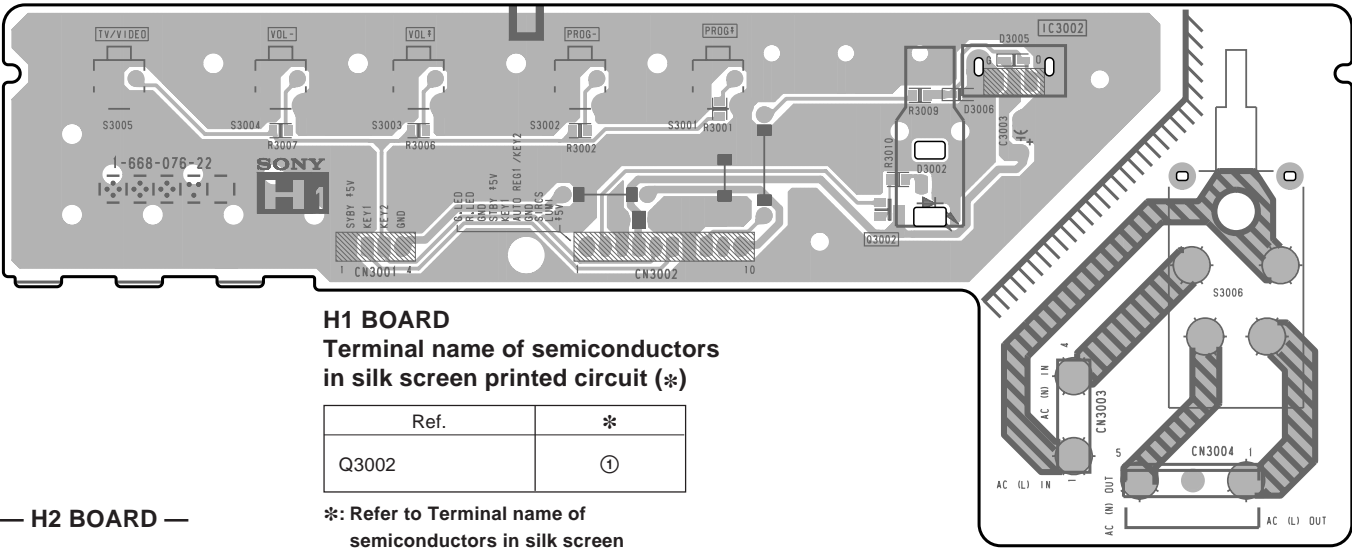
※: Refer to Terminal name of  
semiconductors in silk screen  
printed circuit (see page 63)

— ZG BOARD —



**H1** [KEY, LED, AC SW] **H2** [FRONT IN, KEY] **ZR** [RED DY]

— H1 BOARD —

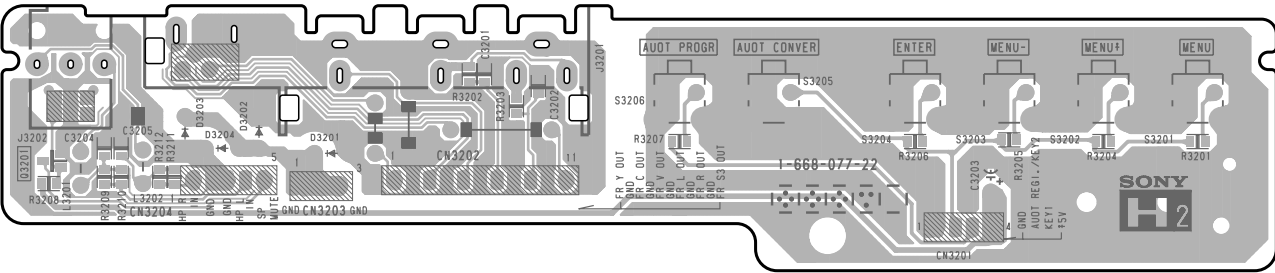


**H1 BOARD**  
Terminal name of semiconductors  
in silk screen printed circuit (\*)

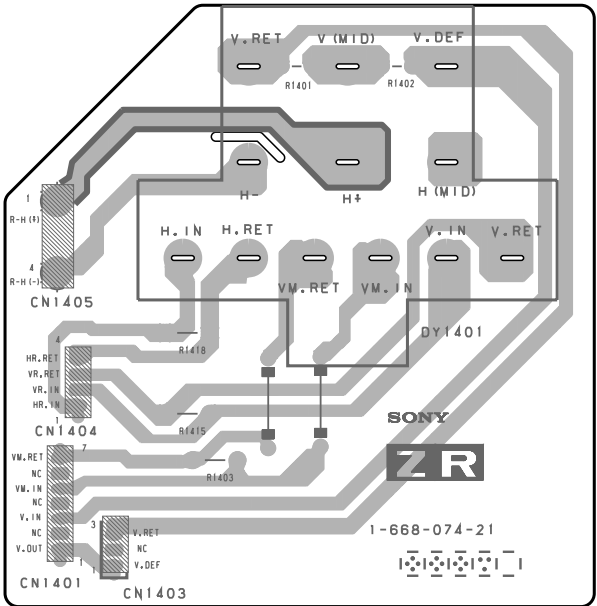
Ref.	*
Q3002	①

— H2 BOARD —

※: Refer to Terminal name of  
semiconductors in silk screen  
printed circuit (see page 63)



— ZR BOARD —

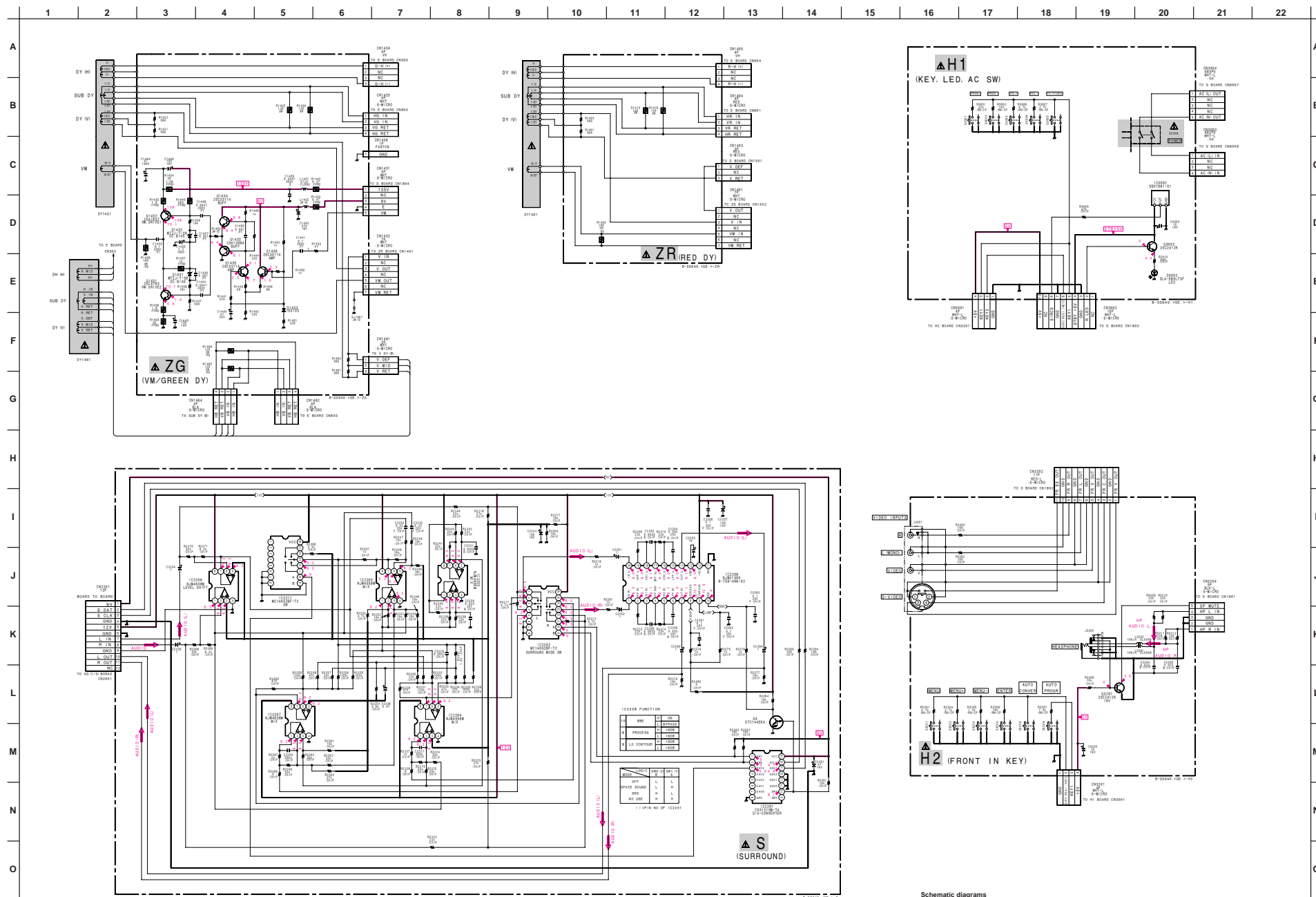


**H2 BOARD**  
Terminal name of semiconductors  
in silk screen printed circuit (\*)

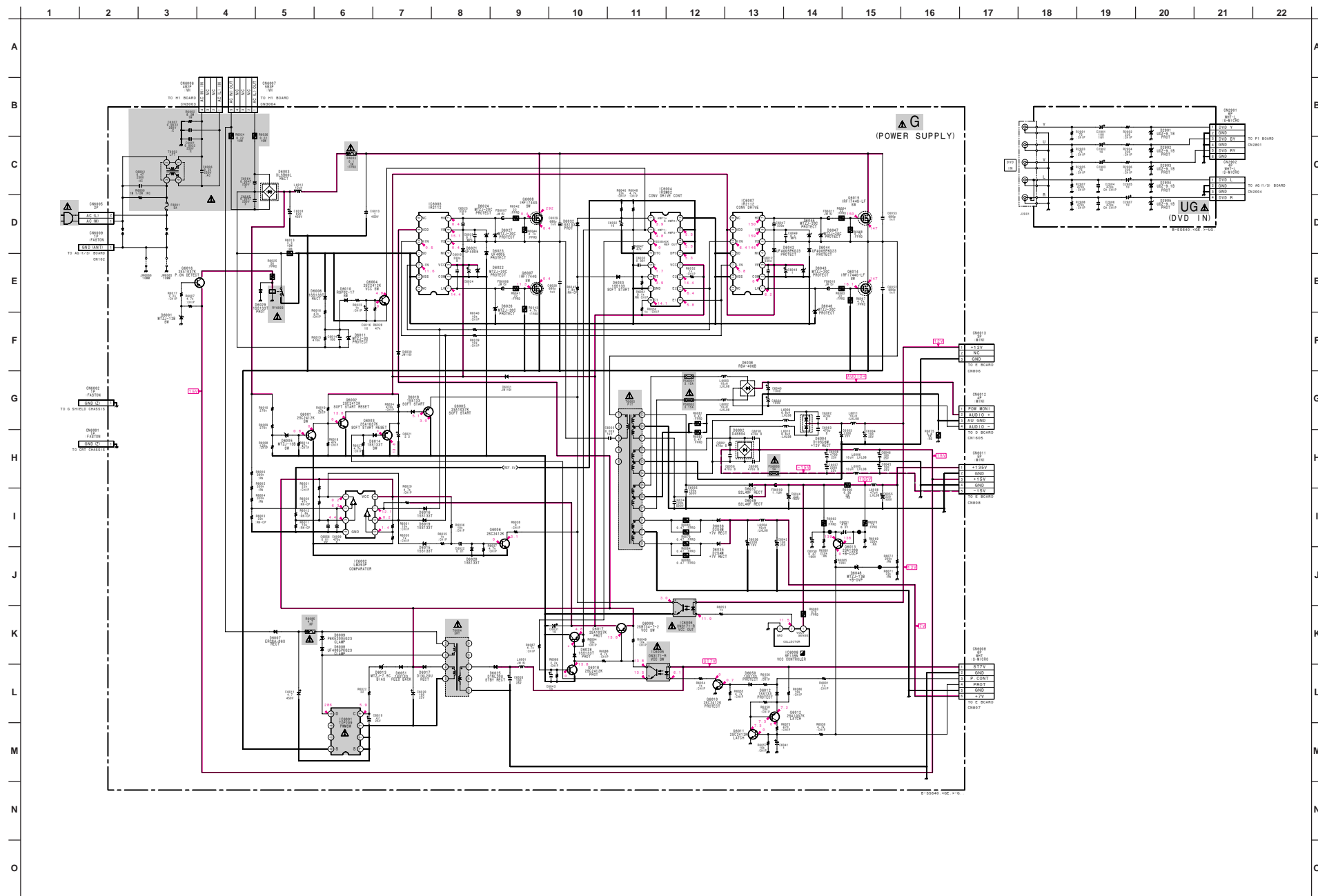
Ref.	*
Q3201	①

※: Refer to Terminal name of  
semiconductors in silk screen  
printed circuit (see page 63)

(7) Schematic Diagrams of H1, H2, S, ZG and ZR Boards



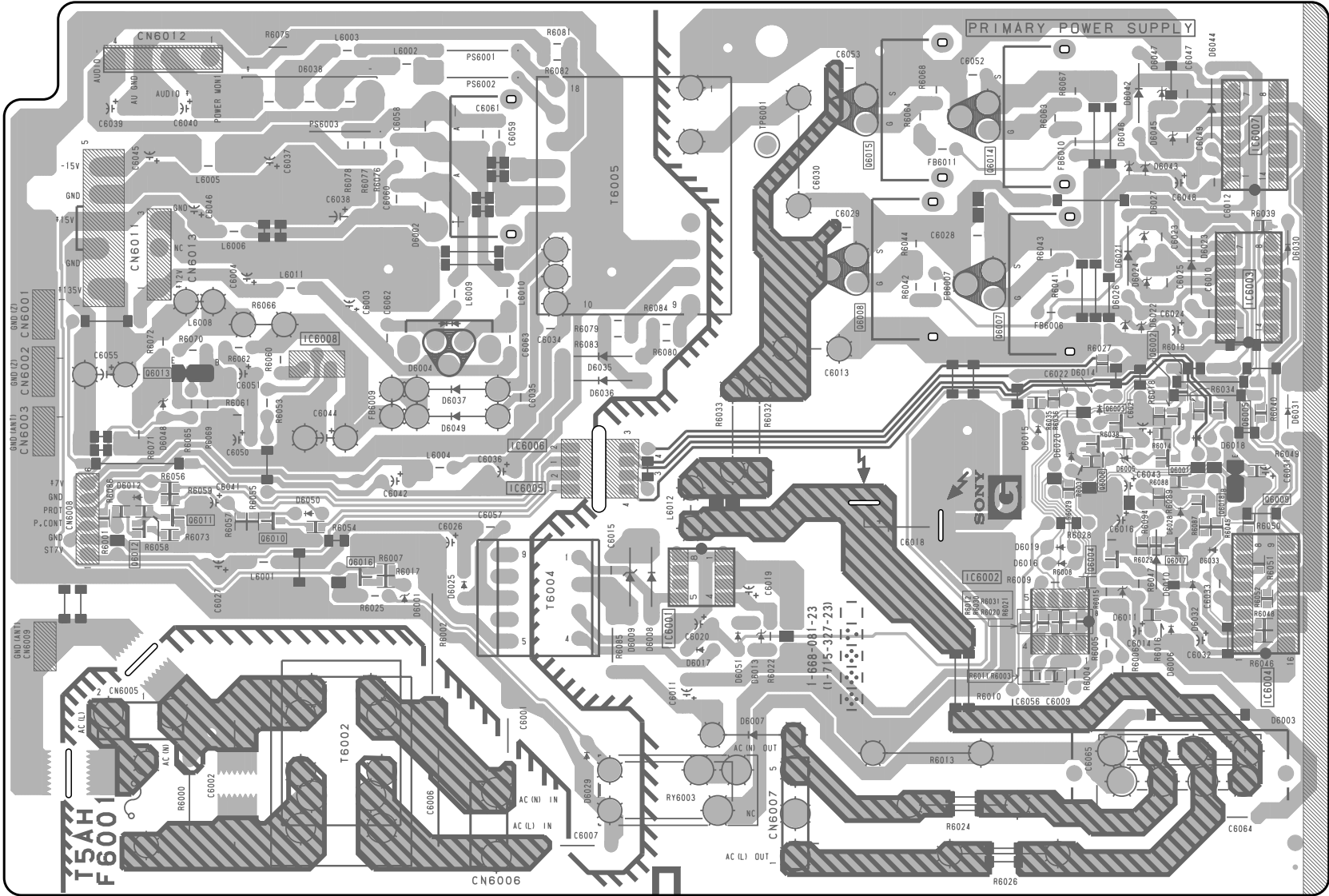
(8) Schematic Diagrams of G and UG Boards



G [POWER SUPPLY]

UG [DVD IN]

— G BOARD —

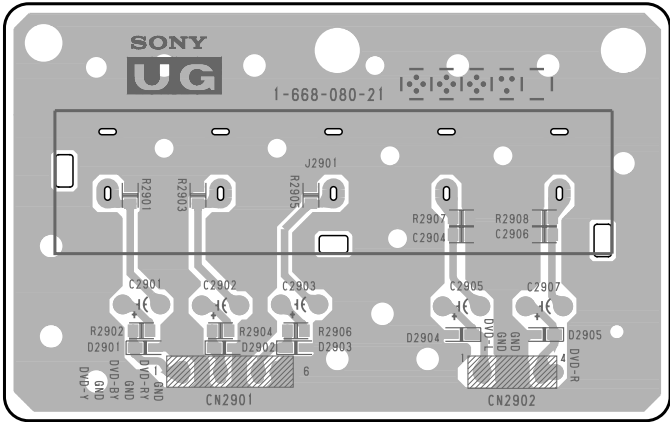


G BOARD  
Terminal name of semiconductors  
in silk screen printed circuit (\*)

Ref.	*
Q6001-Q6006, Q6010-Q6012, Q6016-Q6018	①

※: Refer to Terminal name of  
semiconductors in silk screen  
printed circuit (see page 63)

— UG BOARD —



UG BOARD  
Terminal name of semiconductors  
in silk screen printed circuit (\*)

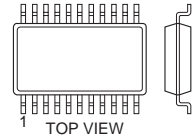
Ref.	*
D2901-D2905	③

※: Refer to Terminal name of  
semiconductors in silk screen  
printed circuit (see page 63)



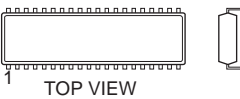
## 6-5. SEMICONDUCTORS

BA7606F-T2  
CXA1315M  
CXA1875AM-T4  
HEF4053BT



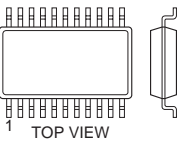
16pin SOP

CA0007AD  
IR2112  
NJM2058D  
μPC339C



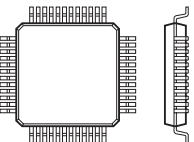
14pin DIP

CA0007AM



14pin SOP

CXA1855Q  
MC141627FT



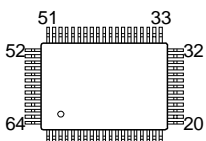
48pin QFP

CXA2050S



64pin DIP

CXP85452



TOP VIEW

CXP86213-002S  
SAA5261



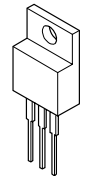
52pin DIP

IR3M02  
IR3M02A

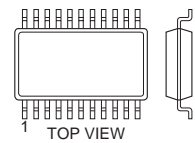


16pin DIP

LM2940CT-5.0  
L7812CV  
NJM78M05FA  
PQ09RF2  
TA7812S  
μPC2405HF



LM358D  
LM358DR  
NJM4558M-T2  
NJM4558M-TE2  
ST24C08FM6TR  
TL082CPS-E05  
TL082M  
μPC4558G2



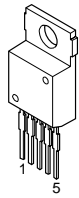
8pin SOP

LM393P  
NJM4560D  
RC4560D  
TDA2822M  
TDA7264  
TOP209P  
μPC393C

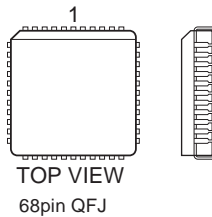


8pin DIP

MC14052BF

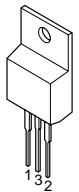


MSP3410D-PS-B4-T-ND

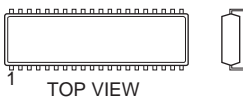


68pin QFJ

NJM79M05FA



PA0053B



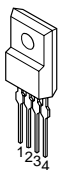
18pin DIP

PM0011AS



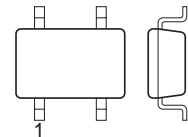
42pin DIP

PQ05RF11



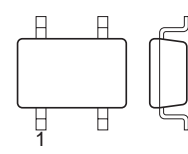
12pin

PST593C-MMP-4P



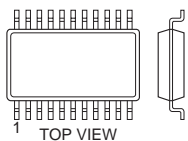
4pin Chip

PST9143NL



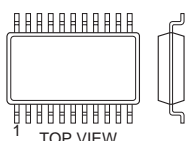
5pin Chip

SDA9187-2XGEG



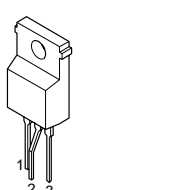
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SDA9189XGEG  
SDA9189XGEGA132

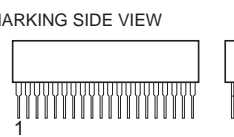


32pin SOP

SE135N-LF12  
SE-135N

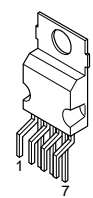


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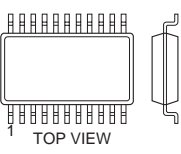


18pin SIP

STV9379

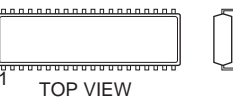


TDA8395T/N3



20pin SOP

TDA8424



20pin DIP

TDA9160A  
XR1071CP

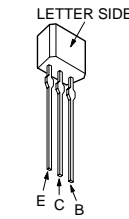


32pin DIP

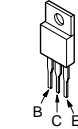
DTA144EKA-T146  
DTC114EK  
DTC114EKA-T146  
DTC124EK  
DTC124EKA-T146  
DTC143TKA-T146  
DTC144EKA  
DTC144EKA-T146  
2SA1037AK-T146-QR  
2SA1037AK-T146-R  
2SA1037K-T-146-QR  
2SA1162G  
2SC1623-L5L6  
2SC2412K-T-146-QR  
2SC2712-YG  
2SC2712-YG-TE85L



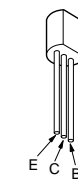
DTC144ESA  
DIC144ESA-TP  
2SA1175-HFE  
2SA1309A-QRSTA  
2SC2785-HFE  
2SC3311A-QRSTA



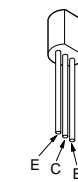
IRFI744G-LF  
2SA1837  
2SC4793  
2SC5022-02



2SA1091-O  
2SA1091-TPE2



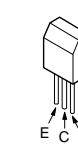
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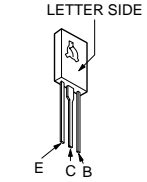
2SA1524  
2SA1524-TP



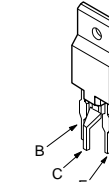
2SB734-34



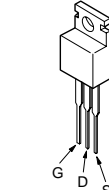
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2SC2688-LK



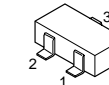
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2SD2539 (LBSONY-1)



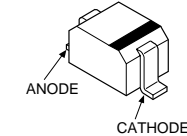
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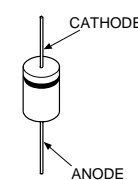
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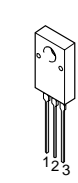
UDZ-TE-17-3.9B  
UDZ-TE-17-4.7B  
UDZ-TE-17-9.1B  
1SS355  
1SS355TE-17



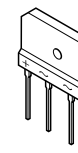
D1NL20-TR  
D2S4M



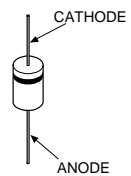
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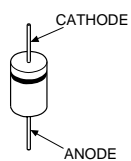
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D4SBS4-F  
D6SB60L  
RBA-406B



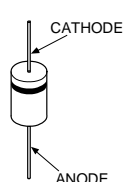
ERC04-06S  
ERC06-15S  
1SS133T-72  
1SS133T-77



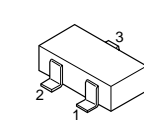
ERD29-08J



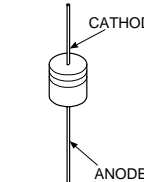
EL1Z  
EL1Z-V1  
GP08D  
GP08DPKG23  
MTZJ-T-77-9.1A  
RGP02-17EL-6433  
RGP02-17PKG23  
RGP02-20EL-6394  
RGP10GPKG23  
S2L40F  
UF4005PKG23



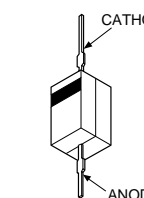
MA3240-TX



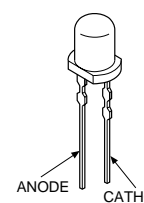
MTZJ-T-77-12B  
MTZJ-T-77-13  
MTZJ-T-77-13B  
MTZJ-T-77-20C  
MTZJ-T-77-33  
MTZJ-T-77-3.6  
MTZJ-T-77-39  
MTZJ-T-77-5.1  
MTZJ-T-77-5.1B  
MTZJ-T-77-5.6  
MTZJ-T-77-5.6B  
MTZJ-T-77-7.5B  
MTZJ-T-77-7.5C  
MTZJ-T-77-9.1B  
MTZJ-13  
MTZJ-13B  
MTZJ-33B  
MTZJ-7.5B  
RD12ES-B2  
RD20ES-B2  
RD3.0ESB2  
RD3.0ES-T1B2  
RD3.6ES-B1  
RD39ES-B2  
RD5.1ES-B1  
RD5.1ES-B2  
RD5.6ESB2  
RD7.5ESB2



P6KE200AG23



SLA-580LT3F





## SECTION 7

### EXPLODED VIEWS

#### NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.

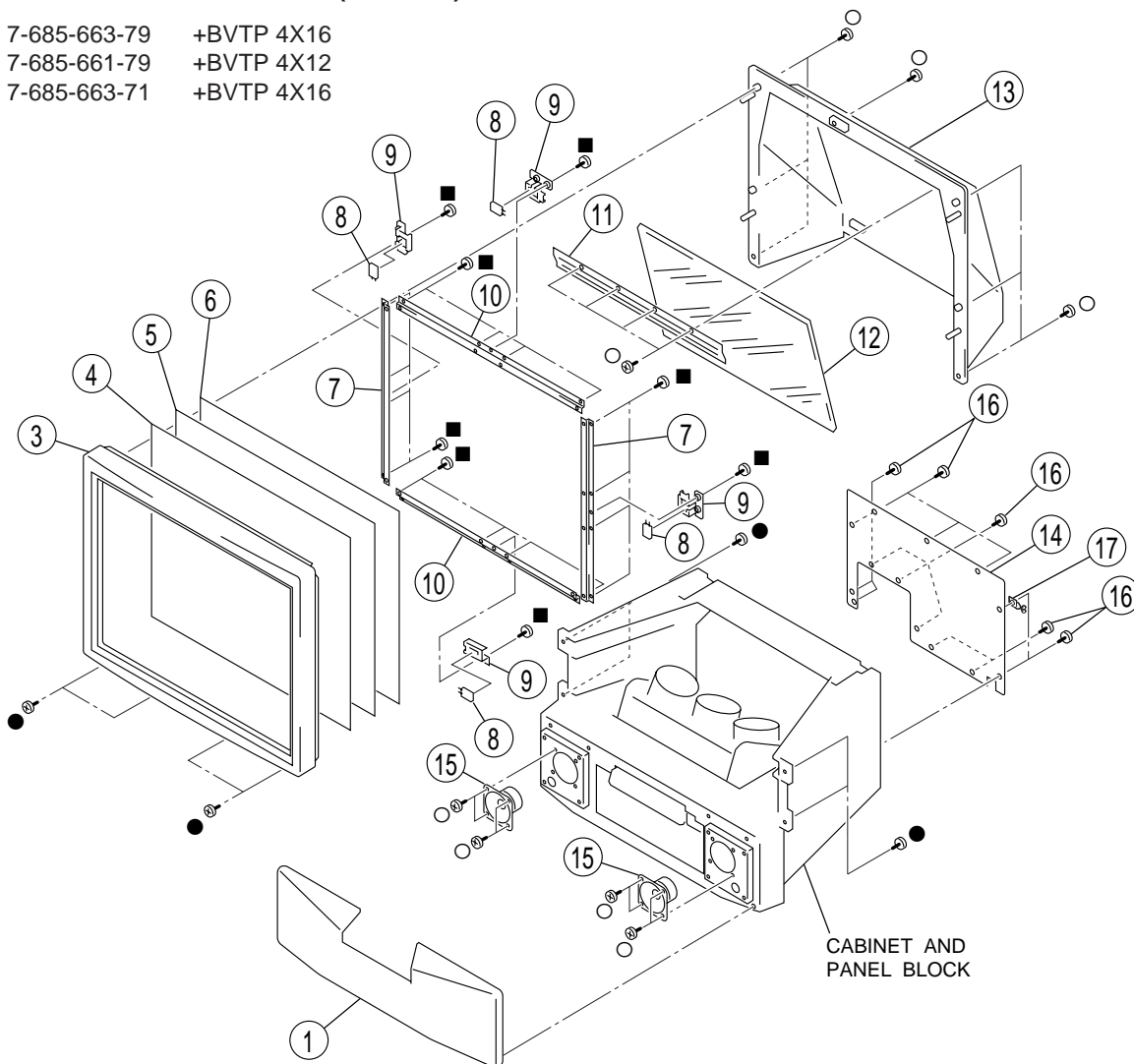
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.

#### 7-1. SCREEN AND COVER BLOCK (KP-EF41)

- : 7-685-663-79 +BVTP 4X16  
■ : 7-685-661-79 +BVTP 4X12  
● : 7-685-663-71 +BVTP 4X16

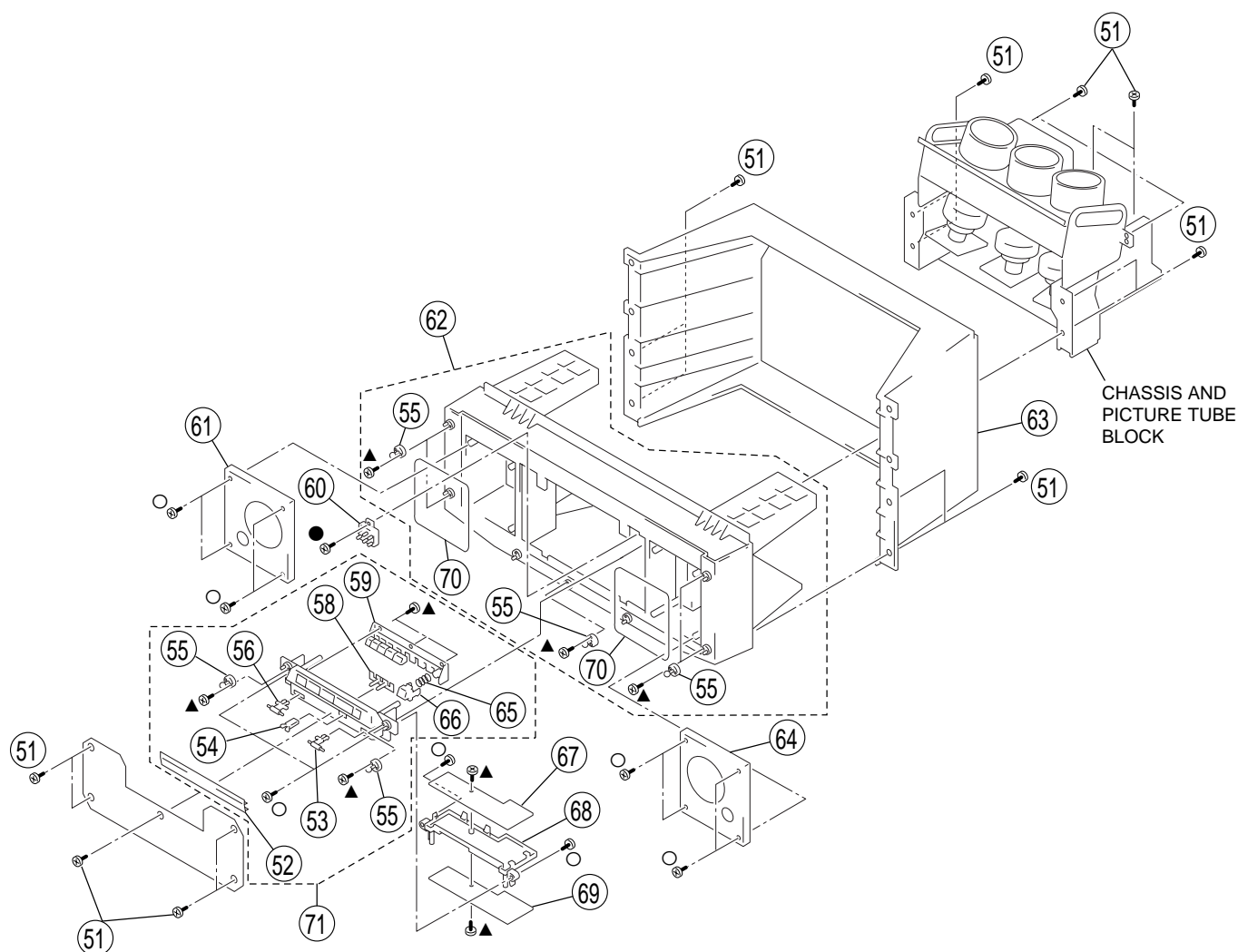


REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4036-519-1	GRILLE ASSY, SPEAKER		11	* 4-066-129-01	HOLDER, MIRROR	
3	X-4036-521-1	BEZNET ASSY		12	4-066-117-01	MIRROR (41)	
4	4-063-365-11	SCREEN, CONTRAST		13	* 4-066-151-01	COVER, MIRROR	
5	4-070-236-11	PLATE (L), DIFFUSION		14	* 4-066-148-01	BOARD (41), REAR	
6	4-070-358-11	PLATE (F), DIFFUSION		15	1-505-426-21	SPEAKER (10.6CM)	
7	* 4-066-126-01	HOLDER (V), SCREEN		16	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD	
8	1-528-864-11	BATTERY, SOLAR		17	3-703-319-01	PURSE LOCK (DIA.15)	
9	* 4-066-132-01	HOLDER, SENSOR					
10	* 4-066-125-01	HOLDER (H), SCREEN					

## 7-2. CABINET AND PANEL BLOCK (KP-EF41)

- : 7-685-663-79 +BVTP 4X16  
● : 7-685-663-71 +BVTP 4X16  
▲ : 7-685-648-79 +BVTP 3X12

The components identified by shading and mark ▲ are critical for safety.  
Replace only with part number specified.

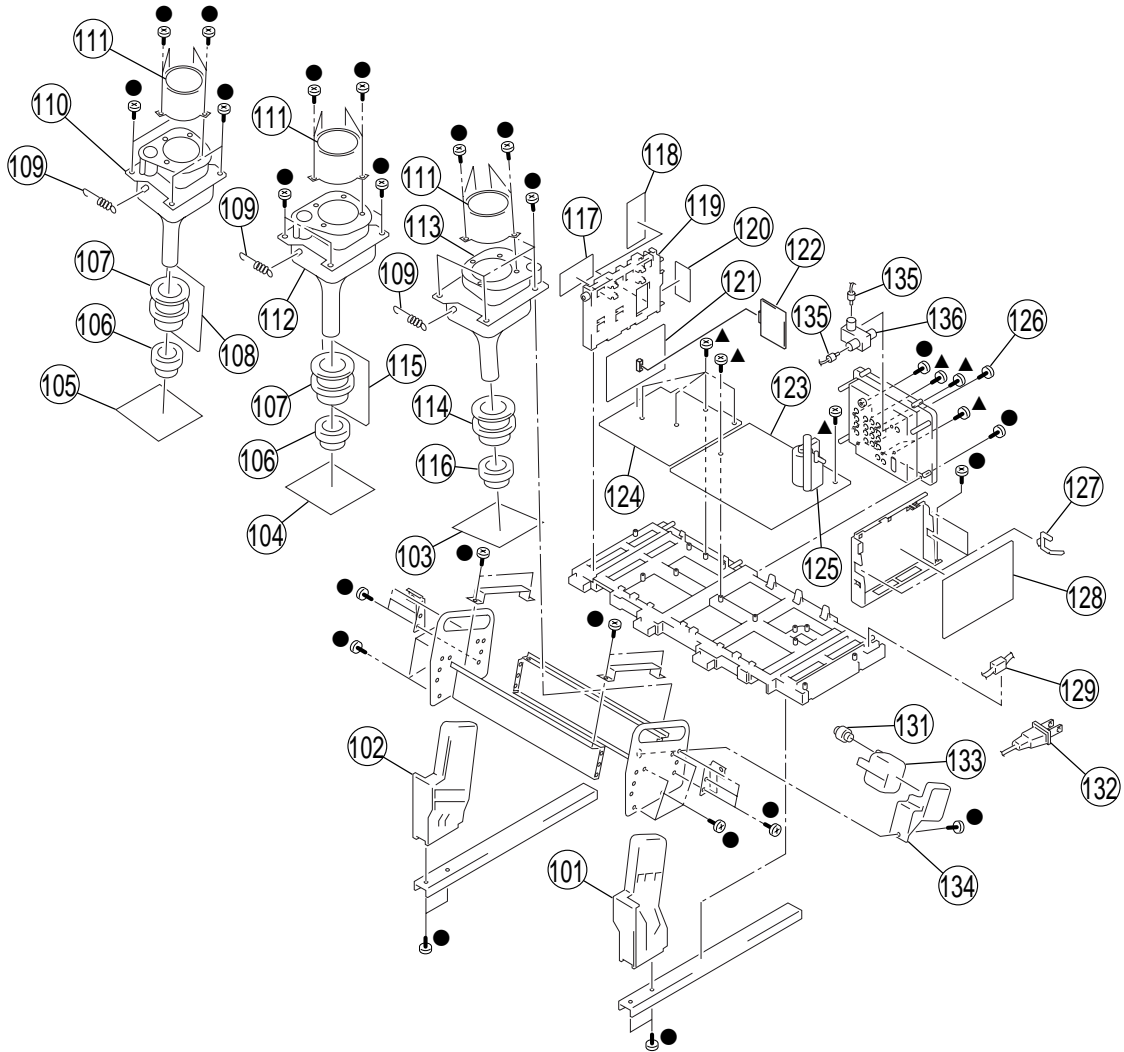


REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD		62	X-4036-518-2	CABINET ASSY, FRONT	55,70
52	4-066-140-21	DOOR		63	X-4036-178-1	CABINET ASSY, REAR	
53	4-045-250-21	DAMPER		64	* 4-066-146-01	BOARD (R), BAFFLE	
54	4-047-464-01	CATCHER, PUSH		65	4-066-103-01	SPRING, COMPRESSION	
55	4-843-806-00	STRIKE		66	4-066-131-11	BUTTON, POWER	
56	3-703-035-11	SHAFT, LID		67	* A-1372-518-A	H1 MOUNT	
58	4-066-130-01	GUIDE, LIGHT		68	* 4-066-133-01	BRACKET (H)	
59	4-066-141-11	BUTTON, MULTI		69	* A-1375-177-A	H2 COMPL	
60	▲ 1-223-925-11	RESISTOR ASSY (HIGH-VOLTAGE)		70	* 4-066-106-01	SPACER (SP)	
61	* 4-066-145-01	BOARD (L), BAFFLE		71	X-4036-520-1	PANEL ASSY, CONTROL	52-56,58,59,65,66

### 7-3. CHASSIS AND PICTURE TUBE BLOCK (KP-EF41)

- : 7-685-663-71 +BVTP 4X16  
▲ : 7-685-648-79 +BVTP 3X12

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

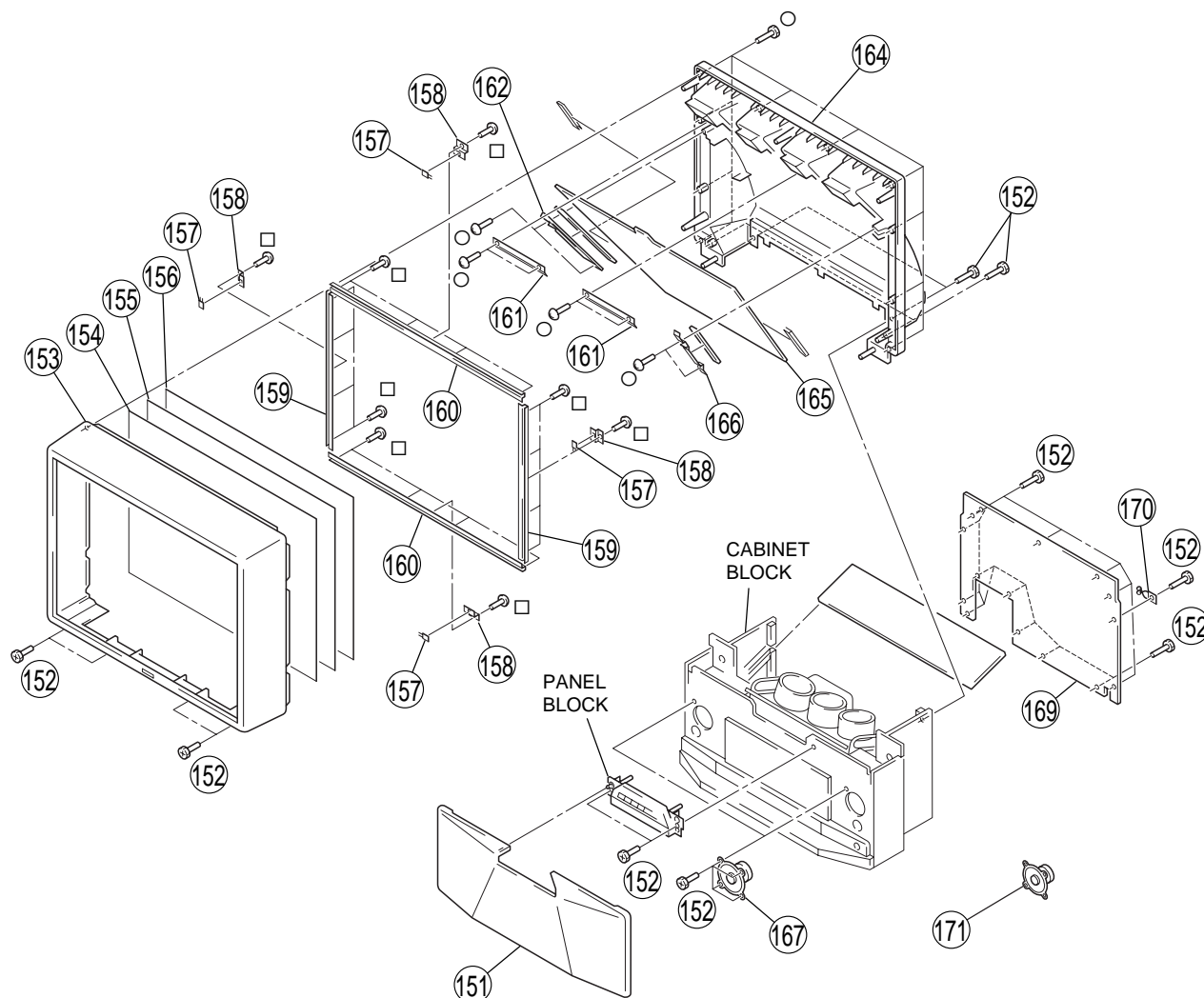


REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	* 4-066-135-01	STAY (R), SIDE		121	* A-1298-673-A	AG COMPL (EF41ME2)	
102	* 4-066-134-01	STAY (L), SIDE		122	* A-1390-891-A	S MOUNT	
103	* A-1331-834-A	CB MOUNT		123	* A-1346-764-A	E COMPL	
104	* A-1331-833-A	CG MOUNT		124	* A-1346-763-A	D COMPL	
105	* A-1331-835-A	CR MOUNT		125	▲ 1-453-307-11	FBT ASSY NX-4007//M3T4	
106	▲ 1-452-790-11	NECK ASSY		126	4-382-854-11	SCREW (M3X10), P, SW (+)	
107	▲ 1-451-454-51	DEFLECTION YOKE (G)(R)		127	* 4-316-015-00	HOLDER, WIRE	
108	* A-1390-876-A	ZR MOUNT		128	* A-1316-394-A	G COMPL	
109	4-048-142-31	SPRING, TENSION		129	4-022-115-00	HOLDER, AC CORD	
110	▲ A-1501-259-A	PICTURE TUBE MECHASEAL ASSY (R),SLIM		131	4-373-137-01	CAP (Z), RUBBER	
111	4-056-258-01	LENS (DELTA 78)		132	▲ 1-574-062-61	CORD, POWER (WITH CONNECTOR) 2.5A/250V (EF41MN2,ME2)	
112	▲ A-1501-260-A	PICTURE TUBE MECHASEAL ASSY (G),SLIM		132	▲ 1-574-358-51	CORD, POWER (WITH CONNECTOR) (EF41SN2)	
113	▲ A-1501-261-A	PICTURE TUBE MECHASEAL ASSY (B),SLIM		132	▲ 1-769-609-21	CORD, POWER (WITH CONNECTOR) (EF41HK2)	
114	▲ 1-451-455-61	DEFLECTION YOKE (B)		133	▲ 8-598-955-12	BLOCK ASSY, HIGH-VOLTAGE	
115	* A-1390-877-A	ZG MOUNT		134	* 4-066-144-01	HOLDER, HVR	
116	▲ 1-452-909-31	MAGNET ASSY, 4 POLE		135	* 1-555-400-00	CABLE, PIN	
117	* A-1342-428-A	V2 MOUNT		136	1-251-372-21	BOOSTER, RF	
118	* A-1190-325-A	P1 MOUNT					
119	* 4-066-142-01	TERMINAL BOARD					
120	* A-1373-691-A	UG MOUNT					
121	* A-1298-632-A	AG COMPL (EF41MN2,HK2,SN2)					

#### 7-4. SCREEN AND COVER BLOCK (KP-EF48)

○ : 7-685-663-79 +BVTP 4X16

□ : 7-685-661-14 +BVTP 4X12



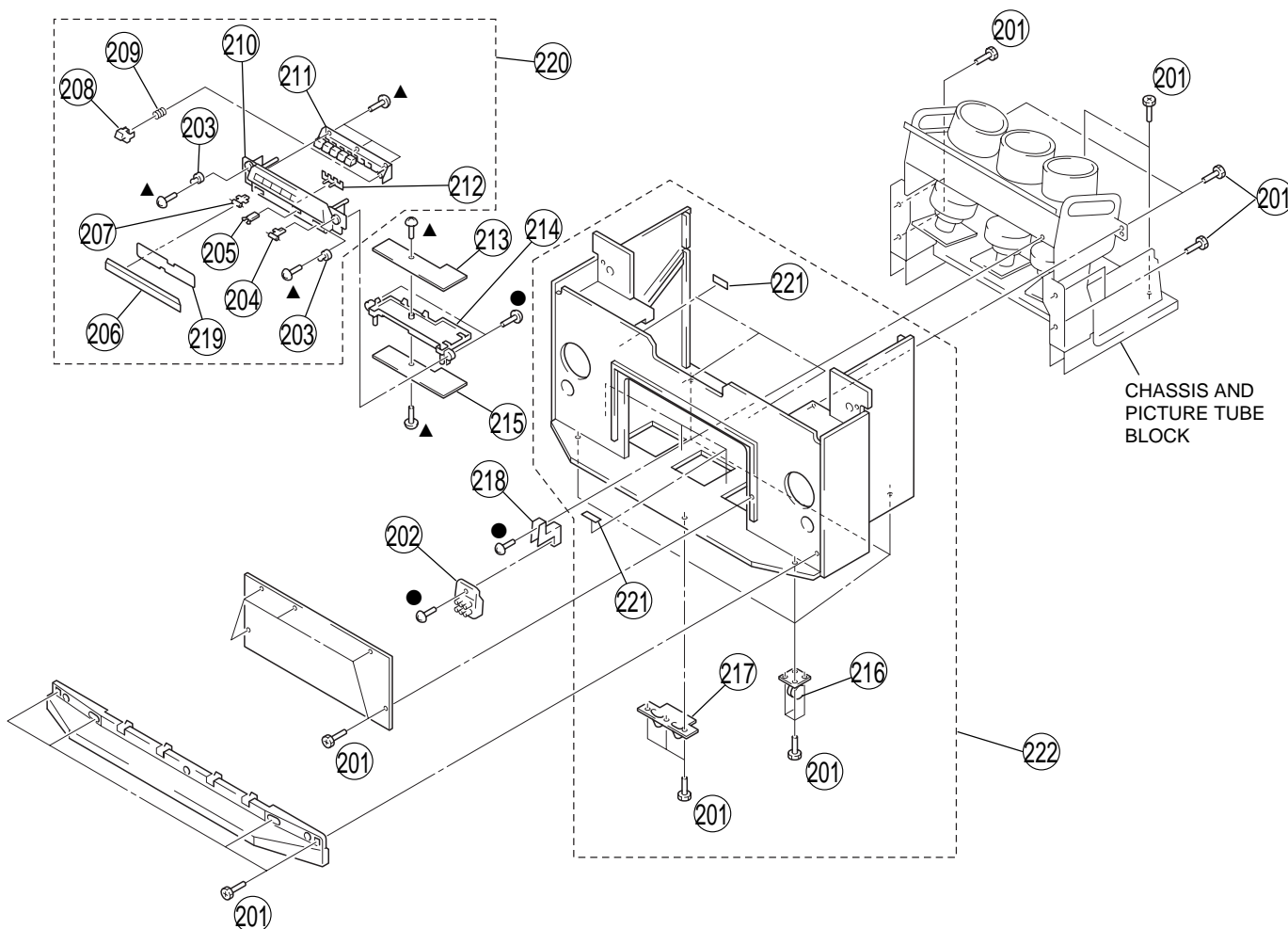
REF. NO.	PART NO.	DESCRIPTION	REMARK
151	X-4035-511-1	GRILLE ASSY, SPEAKER	
152	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD	
153	X-4036-613-1	BEZNET (48) ASSY	
154	4-064-041-01	SCREEN (48), CONTRAST	
155	4-070-235-11	PLATE (L), DIFFUSION	
156	4-058-455-11	PLATE (F), DIFFUSION	
157	1-528-864-11	BATTERY, SOLAR	
158	* 4-066-132-01	HOLDER, SENSOR	
159	* 4-064-051-01	HOLDER (V48), SCREEN	
160	* 4-064-052-01	HOLDER (H), SCREEN	

REF. NO.	PART NO.	DESCRIPTION	REMARK
161	4-064-042-01	HOLDER, MIRROR	
162	* 4-051-790-02	HOLDER, MIRSD (L)	
164	* 4-057-610-01	COVER, MIRROR	
165	4-069-918-01	MIRROR (48)	
166	* 4-051-789-02	HOLDER, MIRSD (R)	
167	1-529-405-11	SPEAKER (16CM)	
169	4-069-922-01	BOARD (48), REAR	
170	3-703-319-01	PURSE LOCK (DIA.15)	
171	1-529-404-11	SPEAKER (5CM)	

## 7-5. CABINET AND PANEL BLOCK (KP-EF48)

- : 7-685-663-71 +BVTP 4X16  
▲ : 7-685-648-79 +BVTP 3X12

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

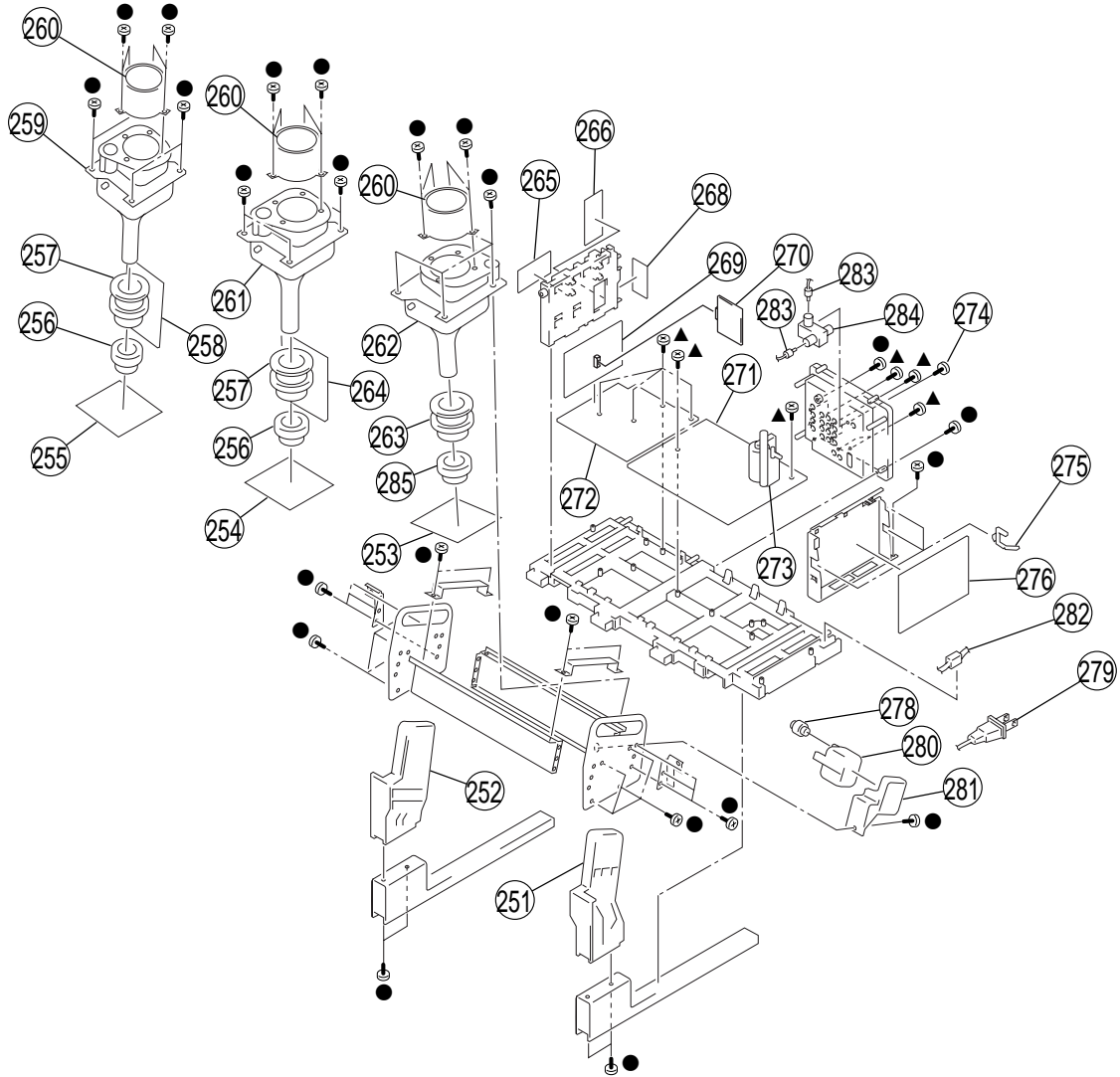


REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
201	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD		212	4-066-130-01	GUIDE, LIGHT	
202	▲ 1-223-925-11	RESISTOR ASSY (HIGH-VOLTAGE)		213	* A-1372-518-A	H1 MOUNT	
203	4-843-806-00	STRIKE		214	* 4-066-133-01	BRACKET (H)	
204	4-045-250-21	DAMPER		215	* A-1375-177-A	H2 COMPL	
205	4-047-464-01	CATCHER, PUSH		216	4-040-755-01	CASTER (DIA. 30)	
206	4-066-140-01	DOOR		217	4-048-175-01	FOOT, PLASTIC	
207	3-703-035-11	SHAFT, LID		218	* 4-054-825-01	BRACKET, FOCUS PACK	
208	4-066-131-01	BUTTON, POWER		219	4-066-112-01	LABEL, CONTROL	
209	4-066-103-01	SPRING, COMPRESSION		220	X-4035-946-3	PANEL ASSY, CONTROL	203-212,219
210	4-066-136-01	PANEL, CONTROL		221	4-069-915-01	CLAMP	
211	4-066-141-01	BUTTON, MULTI		222	* X-4036-614-1	CABINET (48) ASSY	201,216,217,221

## 7-6. CHASSIS AND PICTURE TUBE BLOCK (KP-EF48)

- : 7-685-663-71 +BVTP 4X16  
▲ : 7-685-648-79 +BVTP 3X12

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

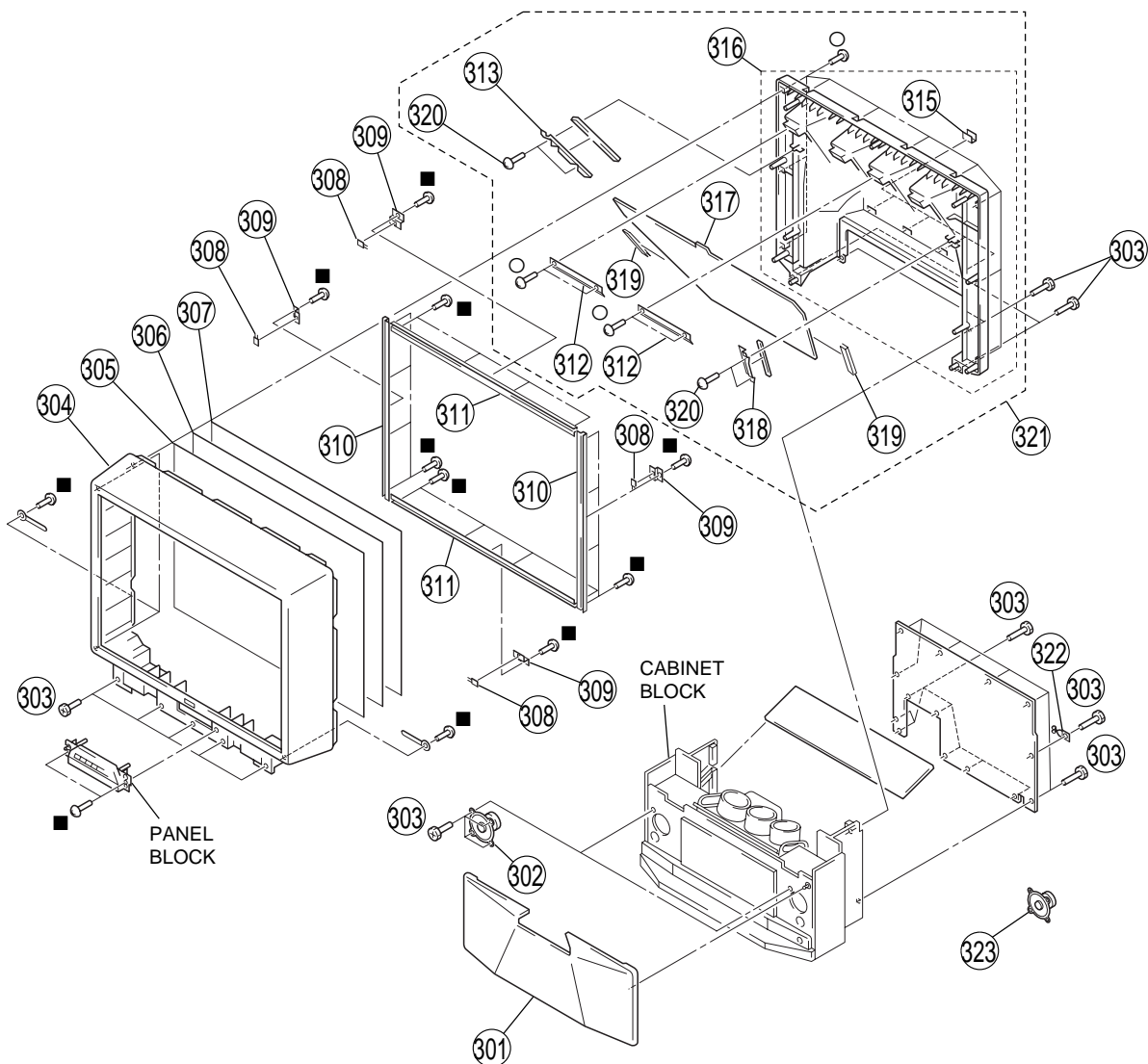


REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
251	* 4-066-135-01	STAY (R), SIDE		270	* A-1390-891-A	S MOUNT	
252	* 4-066-134-01	STAY (L), SIDE		271	* A-1346-829-A	E COMPL	
253	* A-1331-834-A	CB MOUNT		272	* A-1346-763-A	D COMPL	
254	* A-1331-833-A	CG MOUNT		273	▲ 1-453-307-11	FBT ASSY NX-4007//M3T4	
255	* A-1331-835-A	CR MOUNT		274	4-382-854-11	SCREW (M3X10), P, SW (+)	
256	▲ 1-452-790-11	NECK ASSY		275	* 4-316-015-00	HOLDER, WIRE	
257	▲ 1-451-455-51	DEFLECTION YOKE (G)(R)		276	* A-1316-394-A	G COMPL	
258	* A-1390-876-A	ZR MOUNT		278	4-373-137-01	CAP (Z), RUBBER	
259	▲ 8-733-572-05	PICTURE TUBE 07MXC3(R)(DIAPHRAGM)		279	▲ 1-574-062-61	CORD, POWER (WITH CONNECTOR) 2.5A/250V (EF48MN2,ME2)	
260	4-056-258-01	LENS (DELTA 78)		279	▲ 1-574-358-51	CORD, POWER (WITH CONNECTOR) (EF48SN2)	
261	▲ 8-733-570-05	PICTURE TUBE 07MXC2(G)(DIAPHRAGM)		279	▲ 1-769-609-21	CORD, POWER (WITH CONNECTOR) (EF48HK2)	
262	▲ 8-733-575-05	PICTURE TUBE 07MAC3(B)(DIAPHRAGM)		280	▲ 8-598-955-12	BLOCK ASSY, HIGH-VOLTAGE	
263	▲ 1-451-455-61	DEFLECTION YOKE (B)		281	* 4-066-144-01	HOLDER, HVR	
264	* A-1390-877-A	ZG MOUNT		282	4-022-115-00	HOLDER, AC CORD	
265	* A-1342-428-A	V2 MOUNT		283	* 1-555-400-00	CABLE, PIN	
266	* A-1190-325-A	P1 MOUNT		284	1-251-372-21	BOOSTER, RF	
268	* A-1373-691-A	UG MOUNT		285	▲ 1-452-909-31	MAGNET ASSY, 4 POLE	
269	* A-1298-632-A	AG COMPL (EF48MN2,HK2,SN2)					
269	* A-1298-673-A	AG COMPL (EF48ME2)					



## 7-7. SCREEN AND COVER BLOCK (KP-EF53)

○ : 7-685-663-79 +BVTP 4X16  
■ : 7-685-661-79 +BVTP 4X12

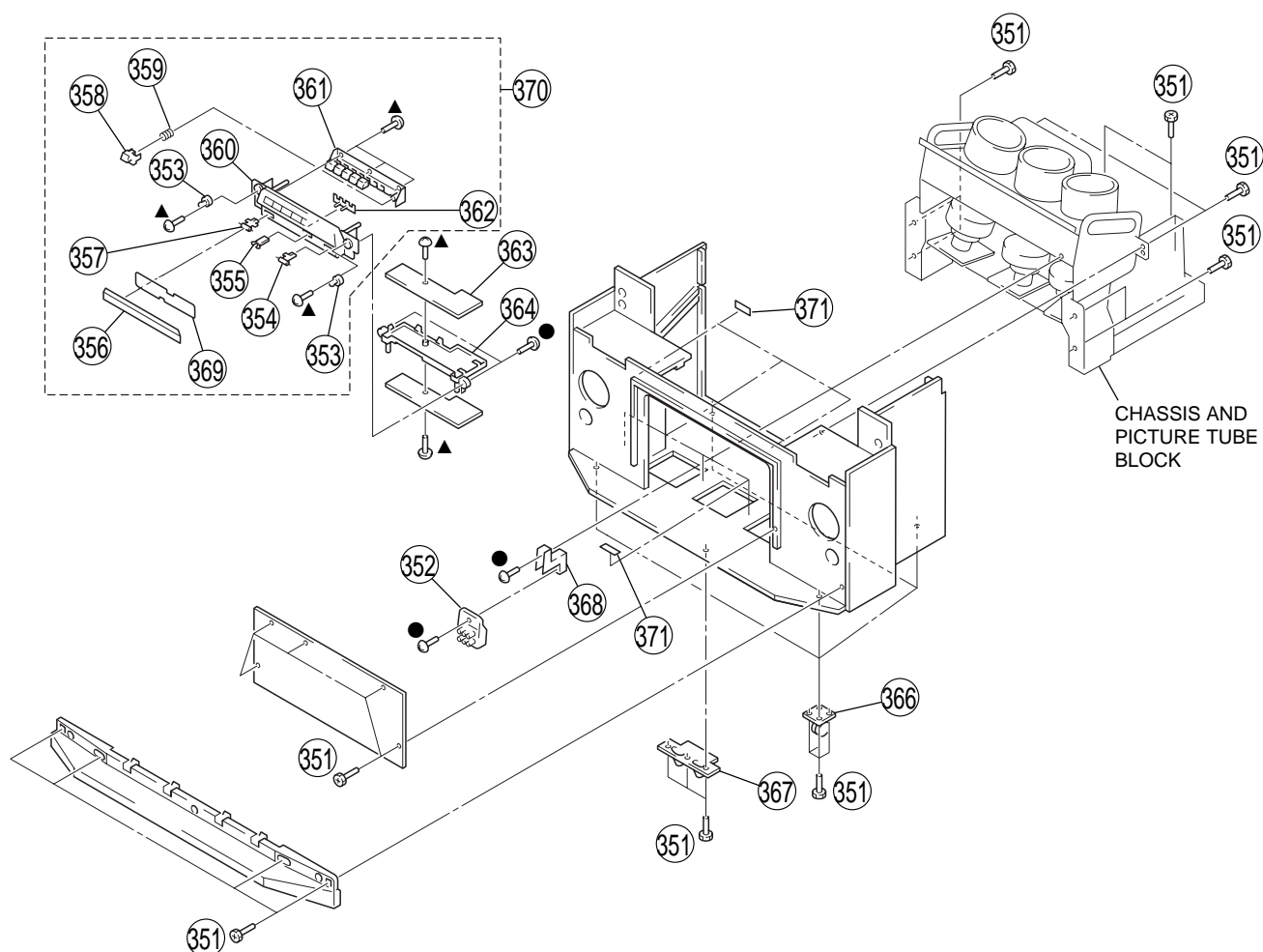


REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
301	X-4035-511-1	GRILLE ASSY, SPEAKER		312	4-064-042-01	HOLDER, MIRROR	
302	1-529-405-11	SPEAKER (16CM)		313	* 4-051-790-02	HOLDER, MIRROR (L)	
303	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD		315	4-048-150-01	CAP, HOLE	
304	X-4036-625-1	BEZNET (53) ASSY		316	* X-4032-620-1	COVER ASSY, MIRROR	315
305	4-064-186-01	SCREEN (53), CONTRAST		317	4-070-036-01	MIRROR (53)	
306	4-070-234-11	PLATE (L), DIFFUSION		318	* 4-051-789-02	HOLDER, MIRROR (R)	
307	4-070-282-11	PLATE (F), DIFFUSION		319	4-033-775-41	PROTECTOR, MIRROR	
308	1-528-864-11	BATTERY, SOLAR		320	4-304-851-11	SCREW (4X25), (+) PWH TAPPING	
309	* 4-066-132-01	HOLDER, SENSOR		321	* A-1501-480-A	COVER ASSY, MIRROR	312-313, 315-320
310	* 4-064-189-01	HOLDER (V53), SCREEN		322	3-703-319-01	PURSE LOCK (DIA.15)	
311	* 4-064-052-01	HOLDER (H), SCREEN		323	1-529-404-11	SPEAKER (5CM)	

## 7-8. CABINET AND PANEL BLOCK (KP-EF53)

- : 7-685-663-71 +BVTP 4X16  
▲ : 7-685-648-79 +BVTP 3X12

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.



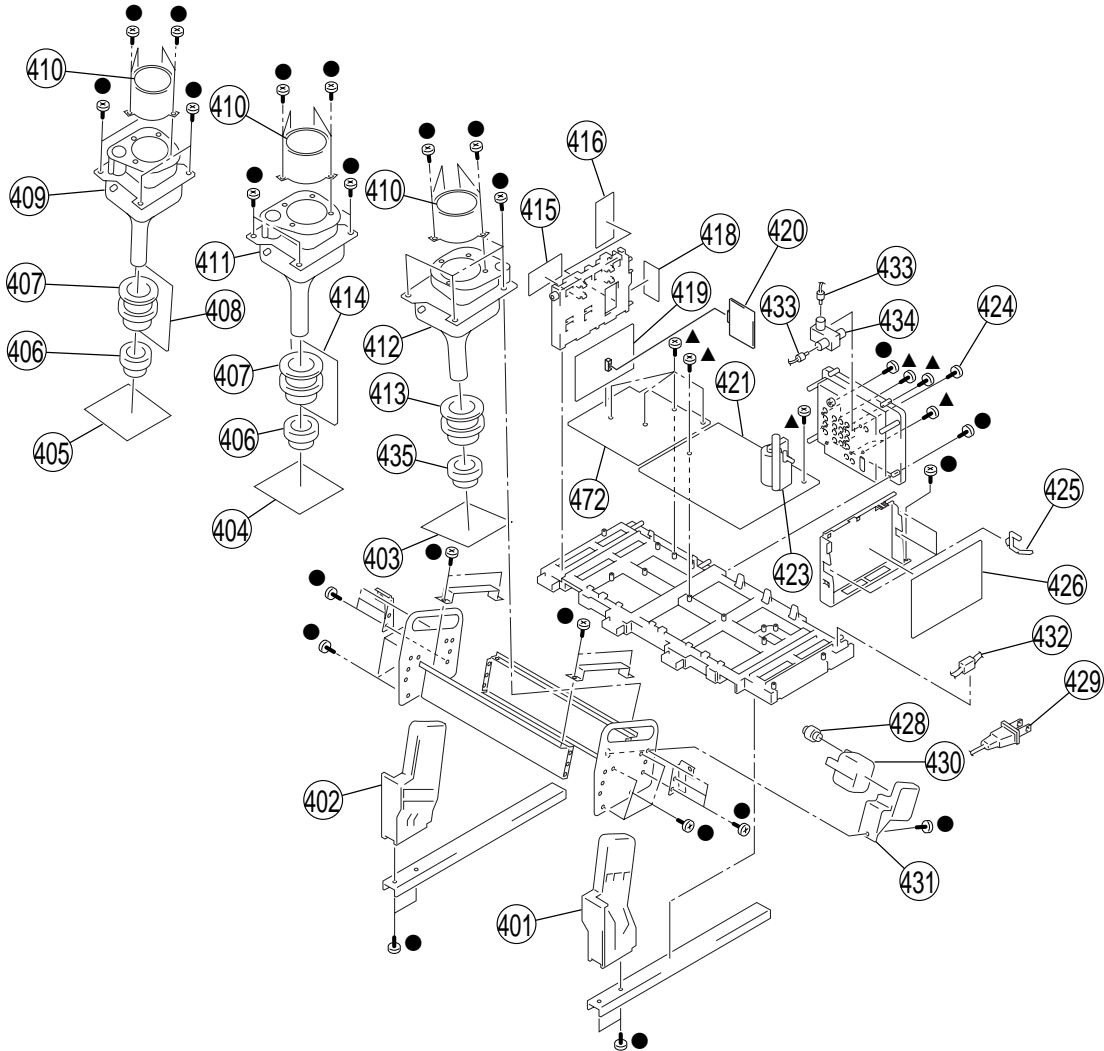
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
351	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD		362	4-066-130-01	GUIDE, LIGHT	
352	▲ 1-223-925-11	RESISTOR ASSY (HIGH-VOLTAGE)		363	* A-1372-518-A	H1 MOUNT	
353	4-843-806-00	STRIKE		364	* 4-066-133-01	BRACKET (H)	
354	4-045-250-21	DAMPER		365	* A-1375-177-A	H2 COMPL	
355	4-047-464-01	CATCHER, PUSH		366	4-040-755-01	CASTER (DIA. 30)	
356	4-066-140-01	DOOR		367	4-048-175-01	FOOT, PLASTIC	
357	3-703-035-11	SHAFT, LID		368	* 4-054-825-01	BRACKET, FOCUS PACK	
358	4-066-131-01	BUTTON, POWER		369	4-066-112-01	LABEL, CONTROL	
359	4-066-103-01	SPRING, COMPRESSION		370	X-4035-946-3	PANEL ASSY, CONTROL	353-362,369
360	4-066-136-01	PANEL, CONTROL		371	4-069-915-01	CLAMP	
361	4-066-141-01	BUTTON, MULTI					



## 7-9. CHASSIS AND PICTURE TUBE BLOCK (KP-EF53)

- : 7-685-663-71 +BVTP 4X16  
▲ : 7-685-648-79 +BVTP 3X12

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
401	* 4-066-135-01	STAY (R), SIDE		419	* A-1298-632-A	AG COMPL (EF53MN2,HK2,SN2)	
402	* 4-066-134-01	STAY (L), SIDE		419	* A-1298-673-A	AG COMPL (EF53ME2)	
403	* A-1331-834-A	CB MOUNT		420	* A-1390-891-A	S MOUNT	
404	* A-1331-833-A	CG MOUNT		421	* A-1346-829-A	E COMPL	
405	* A-1331-835-A	CR MOUNT		422	* A-1346-763-A	D COMPL	
406	▲ 1-452-790-11	NECK ASSY		423	▲ 1-453-307-11	FBT ASSY NX-4007//M3T4	
407	▲ 1-451-455-51	DEFLECTION YOKE (G)(R)		424	4-382-854-11	SCREW (M3X10), P, SW (+)	
408	* A-1390-876-A	ZR MOUNT		425	* 4-316-015-00	HOLDER, WIRE	
409	▲ 8-733-572-05	PICTURE TUBE 07MXC3(R)(DIAPHRAGM)		426	* A-1316-394-A	G COMPL	
410	4-056-258-01	LENS (DELTA 78)		428	4-373-137-01	CAP (Z), RUBBER	
411	▲ 8-733-570-05	PICTURE TUBE 07MXC2(G)(DIAPHRAGM)		429	▲ 1-574-062-61	CORD, POWER (WITH CONNECTOR)	2.5A/250V
412	▲ 8-733-575-05	PICTURE TUBE 07MAC3(B)(DIAPHRAGM)		430	▲ 8-598-955-12	BLOCK ASSY, HIGH-VOLTAGE	
413	▲ 1-451-455-61	DEFLECTION YOKE (B)		431	* 4-066-144-01	HOLDER, HVR	
414	* A-1390-877-A	ZG MOUNT		432	4-022-115-00	HOLDER, AC CORD	
415	* A-1342-428-A	V2 MOUNT		433	* 1-555-400-00	CABLE, PIN	
416	* A-1190-325-A	P1 MOUNT		434	1-251-372-21	BOOSTER, RF	
418	* A-1373-691-A	UG MOUNT		435	▲ 1-452-909-31	MAGNET ASSY, 4POLE	

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## SECTION 8 ELECTRICAL PARTS LIST

**NOTE:**

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

• The components identified by  $\blacktriangle$  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

• Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

**RESISTORS**

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

• **CAPACITORS**  
PF :  $\mu$ F

• There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	* A-1190-325-A	P1 MOUNT *****					
		<CAPACITOR>					
C2301	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2444	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2302	1-104-664-11	ELECT 47MF	20%	C2445	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2303	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2446	1-164-346-11	CERAMIC CHIP 1MF	16V
C2304	1-104-664-11	ELECT 47MF	20%	C2447	1-126-933-11	ELECT 100MF	20% 16V
C2305	1-164-232-11	CERAMIC CHIP 0.01MF	10%				
C2306	1-164-232-11	CERAMIC CHIP 0.01MF	10%	C2448	1-163-251-11	CERAMIC CHIP 100PF	5%
C2307	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2449	1-104-665-11	ELECT 100MF	20%
C2308	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2450	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2309	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2451	1-104-664-11	ELECT 47MF	20%
C2310	1-104-664-11	ELECT 47MF	20%	C2452	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2311	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2453	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2312	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C2454	1-163-037-11	CERAMIC CHIP 0.022MF	10%
C2313	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2455	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2402	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2456	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2403	1-104-664-11	ELECT 47MF	20%	C2457	1-104-665-11	ELECT 100MF	20%
C2405	1-164-346-11	CERAMIC CHIP 1MF	16V	C2458	1-163-017-00	CERAMIC CHIP 0.0047MF	10%
C2406	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2459	1-163-037-11	CERAMIC CHIP 0.022MF	10%
C2407	1-126-964-11	ELECT 10MF	20%	C2460	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2413	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C2461	1-163-235-11	CERAMIC CHIP 22PF	5%
C2415	1-164-232-11	CERAMIC CHIP 0.01MF	10%	C2463	1-163-237-11	CERAMIC CHIP 27PF	5%
C2416	1-163-001-11	CERAMIC CHIP 220PF	10%	C2464	1-163-231-11	CERAMIC CHIP 15PF	5%
C2417	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2465	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2418	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2466	1-163-231-11	CERAMIC CHIP 15PF	5%
C2419	1-104-665-11	ELECT 100MF	20%	C2467	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2420	1-164-004-11	CERAMIC CHIP 0.1MF	10%	C2468	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2421	1-164-343-11	CERAMIC CHIP 0.056MF	10%	C2469	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2423	1-164-346-11	CERAMIC CHIP 1MF	16V	C2470	1-104-665-11	ELECT 100MF	20%
C2424	1-163-275-11	CERAMIC CHIP 1000PF	5%	C2471	1-164-004-11	CERAMIC CHIP 0.1MF	10%
C2425	1-104-664-11	ELECT 47MF	20%	C2472	1-164-346-11	CERAMIC CHIP 1MF	16V
C2426	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2473	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2427	1-163-251-11	CERAMIC CHIP 100PF	5%	C2474	1-104-664-11	ELECT 47MF	20%
C2428	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2476	1-163-251-11	CERAMIC CHIP 100PF	5%
C2429	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	C2478	1-163-121-00	CERAMIC CHIP 150PF	5%
C2430	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2480	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2431	1-164-346-11	CERAMIC CHIP 1MF	16V	C2481	1-104-664-11	ELECT 47MF	20%
C2432	1-164-346-11	CERAMIC CHIP 1MF	16V	C2482	1-104-665-11	ELECT 100MF	20%
C2433	1-164-346-11	CERAMIC CHIP 1MF	16V	C2483	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2434	1-163-251-11	CERAMIC CHIP 100PF	5%	C2484	1-164-346-11	CERAMIC CHIP 1MF	16V
C2435	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2485	1-164-346-11	CERAMIC CHIP 1MF	16V
C2436	1-164-346-11	CERAMIC CHIP 1MF	16V	C2486	1-164-346-11	CERAMIC CHIP 1MF	16V
C2437	1-163-249-11	CERAMIC CHIP 82PF	5%	C2801	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2438	1-115-339-11	CERAMIC CHIP 0.1MF	10%	C2802	1-104-664-11	ELECT 47MF	20%
C2439	1-164-346-11	CERAMIC CHIP 1MF	16V	C2803	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2440	1-164-346-11	CERAMIC CHIP 1MF	16V	C2804	1-104-664-11	ELECT 47MF	20%
C2442	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2805	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2443	1-104-665-11	ELECT 100MF	20%	C2806	1-126-967-11	ELECT 47MF	20%
				C2807	1-163-251-11	CERAMIC CHIP 100PF	5%
				C2808	1-163-243-11	CERAMIC CHIP 47PF	5%
				C2809	1-163-251-11	CERAMIC CHIP 100PF	5%
				C2810	1-163-243-11	CERAMIC CHIP 47PF	5%
				C2811	1-164-346-11	CERAMIC CHIP 1MF	16V
				C2812	1-164-346-11	CERAMIC CHIP 1MF	16V

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C2813	1-126-964-11	ELECT 10MF 20% 50V		Q2412	1-801-806-11	TRANSISTOR DTC144EKA-T146	
		<CONNECTOR>		Q2413	8-729-901-00	TRANSISTOR DTC124EK	
CN2301	* 1-564-515-11	PLUG, CONNECTOR 12P		Q2414	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
CN2401	* 1-564-508-11	PLUG, CONNECTOR 5P		Q2415	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
CN2402	* 1-564-596-11	PLUG, CONNECTOR 15P		Q2416	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
CN2801	* 1-564-509-11	PLUG, CONNECTOR 6P		Q2417	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
		<DIODE>		Q2418	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
D2401	8-719-047-16	DIODE BAS216		Q2419	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
		<FERRITE BEAD>		Q2420	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
FB2401	1-414-235-11	INDUCTOR CHIP 0UH		Q2421	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FB2402	1-414-235-11	INDUCTOR CHIP 0UH		Q2422	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<FILTER>		Q2423	8-729-900-53	TRANSISTOR DTC114EK	
FL2301	1-236-071-11	ENCAPSULATED COMPONENT		Q2424	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL2302	1-236-071-11	ENCAPSULATED COMPONENT		Q2426	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL2303	1-236-071-11	ENCAPSULATED COMPONENT		Q2427	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
		<IC>		Q2428	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC2401	8-759-439-64	IC HEF4053BT		Q2429	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC2402	8-759-565-20	IC TDA4665T/V5-118		Q2430	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC2403	8-759-248-15	IC SDA9187-2XGEG		Q2431	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC2404	8-759-468-94	IC SDA9189XGEGA132		Q2432	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC2405	8-759-183-35	IC TDA9160A		Q2801	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC2406	8-759-278-95	IC BA7606F		Q2802	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC2801	8-752-072-94	IC CXA1875AM-T4		Q2803	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC2802	8-759-439-64	IC HEF4053BT		Q2804	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC2803	8-759-439-64	IC HEF4053BT		Q2805	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
		<COIL>		Q2806	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L2301	1-408-603-31	INDUCTOR 10UH		Q2807	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L2401	1-408-603-31	INDUCTOR 10UH		Q2808	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L2402	1-408-603-31	INDUCTOR 10UH		Q2809	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L2403	1-408-603-31	INDUCTOR 10UH		Q2810	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L2404	1-408-603-31	INDUCTOR 10UH				<RESISTOR>	
L2405	1-408-603-31	INDUCTOR 10UH		R2301	1-216-025-00	RES,CHIP 100 5%	1/10W
L2406	1-408-603-31	INDUCTOR 10UH		R2302	1-216-025-00	RES,CHIP 100 5%	1/10W
L2407	1-410-384-31	INDUCTOR CHIP 18UH		R2303	1-216-049-00	RES,CHIP 1K 5%	1/10W
L2408	1-408-603-31	INDUCTOR 10UH		R2305	1-216-025-00	RES,CHIP 100 5%	1/10W
L2409	1-410-210-21	INDUCTOR CHIP 33UH		R2306	1-216-049-00	RES,CHIP 1K 5%	1/10W
L2410	1-408-603-31	INDUCTOR 10UH		R2307	1-216-049-00	RES,CHIP 1K 5%	1/10W
L2801	1-414-194-11	INDUCTOR 33UH		R2308	1-216-049-00	RES,CHIP 1K 5%	1/10W
L2802	1-412-010-41	INDUCTOR CHIP 22UH		R2402	1-216-073-00	RES,CHIP 10K 5%	1/10W
L2803	1-414-194-11	INDUCTOR 33UH		R2403	1-216-105-00	RES,CHIP 220K 5%	1/10W
L2804	1-412-010-41	INDUCTOR CHIP 22UH		R2404	1-216-049-00	RES,CHIP 1K 5%	1/10W
		<TRANSISTOR>		R2405	1-216-059-00	RES,CHIP 2.7K 5%	1/10W
Q2301	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2406	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
Q2401	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R2407	1-216-039-00	RES,CHIP 390 5%	1/10W
Q2402	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2408	1-216-049-00	RES,CHIP 1K 5%	1/10W
Q2403	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2409	1-216-033-00	RES,CHIP 220 5%	1/10W
Q2404	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2411	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
Q2405	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R2412	1-216-031-00	RES,CHIP 180 5%	1/10W
Q2406	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2413	1-216-049-00	RES,CHIP 1K 5%	1/10W
Q2407	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R2414	1-216-033-00	RES,CHIP 220 5%	1/10W
Q2408	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2415	1-216-101-00	RES,CHIP 150K 5%	1/10W
Q2409	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2416	1-216-049-00	RES,CHIP 1K 5%	1/10W
Q2410	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2417	1-216-065-00	RES,CHIP 4.7K 5%	1/10W
Q2411	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R2418	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
				R2419	1-216-049-00	RES,CHIP 1K 5%	1/10W
				R2420	1-216-059-00	RES,CHIP 2.7K 5%	1/10W
				R2421	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
				R2422	1-216-049-00	RES,CHIP 1K 5%	1/10W
				R2423	1-216-049-00	RES,CHIP 1K 5%	1/10W
				R2424	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
				R2425	1-216-047-91	RES,CHIP 820 5%	1/10W
				R2426	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
				R2427	1-216-049-00	RES,CHIP 1K 5%	1/10W
				R2428	1-216-033-00	RES,CHIP 220 5%	1/10W
				R2430	1-216-049-00	RES,CHIP 1K 5%	1/10W

**KP-EF41HK2/ME2/MN2/SN2, EF48HK2/ME2/MN2/SN2,**  
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**AG**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R2431	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2501	1-216-025-00	RES,CHIP	100 5% 1/10W
R2432	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2502	1-216-025-00	RES,CHIP	100 5% 1/10W
R2433	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2503	1-216-025-00	RES,CHIP	100 5% 1/10W
R2434	1-216-089-00	RES,CHIP	47K 5% 1/10W	R2801	1-216-059-00	RES,CHIP	2.7K 5% 1/10W
R2435	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2802	1-216-668-11	METAL CHIP	5.1K 0.50% 1/10W
R2436	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	R2803	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R2437	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R2804	1-216-091-00	RES,CHIP	56K 5% 1/10W
R2438	1-216-025-00	RES,CHIP	100 5% 1/10W	R2805	1-216-081-00	RES,CHIP	22K 5% 1/10W
R2440	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2806	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R2441	1-216-025-00	RES,CHIP	100 5% 1/10W	R2807	1-216-069-00	RES,CHIP	6.8K 5% 1/10W
R2442	1-216-295-00	SHORT	0	R2808	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R2443	1-216-097-00	RES,CHIP	100K 5% 1/10W	R2809	1-216-093-91	RES,CHIP	68K 5% 1/10W
R2444	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R2810	1-216-081-00	RES,CHIP	22K 5% 1/10W
R2445	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2811	1-216-049-00	RES,CHIP	1K 5% 1/10W
R2446	1-216-083-00	RES,CHIP	27K 5% 1/10W	R2812	1-216-045-00	RES,CHIP	680 5% 1/10W
R2447	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2813	1-216-295-00	SHORT	0
R2448	1-216-047-91	RES,CHIP	820 5% 1/10W	R2814	1-216-025-00	RES,CHIP	100 5% 1/10W
R2449	1-216-045-00	RES,CHIP	680 5% 1/10W	R2815	1-216-025-00	RES,CHIP	100 5% 1/10W
R2450	1-216-083-00	RES,CHIP	27K 5% 1/10W	R2816	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R2451	1-216-647-11	METAL CHIP	680 0.50% 1/10W	R2817	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R2452	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2818	1-216-025-00	RES,CHIP	100 5% 1/10W
R2453	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2819	1-216-025-00	RES,CHIP	100 5% 1/10W
R2454	1-216-689-11	RES,CHIP	39K 5% 1/10W	R2820	1-216-049-00	RES,CHIP	1K 5% 1/10W
R2455	1-216-047-91	RES,CHIP	820 5% 1/10W	R2821	1-216-049-00	RES,CHIP	1K 5% 1/10W
R2456	1-216-045-00	RES,CHIP	680 5% 1/10W	R2825	1-216-049-00	RES,CHIP	1K 5% 1/10W
R2457	1-216-649-11	METAL CHIP	820 0.50% 1/10W	R2826	1-216-047-91	RES,CHIP	820 5% 1/10W
R2458	1-216-001-00	RES,CHIP	10 5% 1/10W	R2827	* 1-216-029-00	RES,CHIP	150 5% 1/10W
R2459	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R2828	1-216-037-00	RES,CHIP	330 5% 1/10W
R2460	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2830	1-216-049-00	RES,CHIP	1K 5% 1/10W
R2461	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	R2831	1-216-049-00	RES,CHIP	1K 5% 1/10W
R2462	1-216-670-11	METAL CHIP	6.2K 0.50% 1/10W	R2832	1-216-049-00	RES,CHIP	1K 5% 1/10W
R2463	1-216-645-11	METAL CHIP	560 0.50% 1/10W	R2833	1-216-049-00	RES,CHIP	1K 5% 1/10W
R2464	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R2834	1-216-047-91	RES,CHIP	820 5% 1/10W
R2465	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2835	1-216-049-00	RES,CHIP	1K 5% 1/10W
R2466	1-216-025-00	RES,CHIP	100 5% 1/10W	R2836	1-216-689-11	RES,CHIP	39K 5% 1/10W
R2467	1-216-001-00	RES,CHIP	10 5% 1/10W	R2837	1-216-089-00	RES,CHIP	47K 5% 1/10W
R2468	1-216-025-00	RES,CHIP	100 5% 1/10W	R2838	1-216-295-00	SHORT	0
R2469	1-216-025-00	RES,CHIP	100 5% 1/10W	R2839	1-216-033-00	RES,CHIP	220 5% 1/10W
R2470	1-216-097-00	RES,CHIP	100K 5% 1/10W	<TUNER>			
R2472	1-216-109-00	RES,CHIP	330K 5% 1/10W	TU2301	8-598-373-20	FSS TUNER BTF-FG431	
R2473	1-216-049-00	RES,CHIP	1K 5% 1/10W	<CRYSTAL>			
R2474	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	X2401	1-760-095-21	VIBRATOR, CRYSTAL	
R2475	1-216-039-00	RES,CHIP	390 5% 1/10W	X2402	1-567-504-11	OSCILLATOR, CRYSTAL	
R2476	1-216-295-00	SHORT	0	X2403	1-567-505-11	OSCILLATOR, CRYSTAL	
R2477	1-216-295-00	SHORT	0	<CAPACITOR>			
R2478	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	C101	1-126-933-11	ELECT	100MF 20% 16V
R2479	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	C102	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V
R2480	1-216-105-00	RES,CHIP	220K 5% 1/10W	C103	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
R2481	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	C104	1-104-664-11	ELECT	47MF 20% 25V
R2483	1-216-041-00	RES,CHIP	470 5% 1/10W	C105	1-104-664-11	ELECT	47MF 20% 25V
R2484	1-216-081-00	RES,CHIP	22K 5% 1/10W	C106	1-163-038-00	CERAMIC CHIP	0.1MF 25V
R2485	1-216-025-00	RES,CHIP	100 5% 1/10W	C107	1-163-038-00	CERAMIC CHIP	0.1MF 25V
R2486	1-216-081-00	RES,CHIP	22K 5% 1/10W	C108	1-163-038-00	CERAMIC CHIP	0.1MF 25V
R2487	1-216-049-00	RES,CHIP	1K 5% 1/10W	C109	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V
R2488	1-216-025-00	RES,CHIP	100 5% 1/10W	<*****>			
R2489	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	* A-1298-632-A AG COMPL (GE/HK/AUS MODEL)			
R2490	1-216-025-00	RES,CHIP	100 5% 1/10W	<*****>			
R2491	1-216-049-00	RES,CHIP	1K 5% 1/10W	* A-1298-673-A AG COMPL (ME MODEL)			
R2492	1-216-025-00	RES,CHIP	100 5% 1/10W	<*****>			
R2493	1-216-049-00	RES,CHIP	1K 5% 1/10W	<*****>			
R2494	1-216-295-00	SHORT	0	<*****>			
R2495	1-216-025-00	RES,CHIP	100 5% 1/10W	<*****>			
R2496	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	<*****>			
R2497	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	<*****>			
R2498	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	<*****>			
R2499	1-216-025-00	RES,CHIP	100 5% 1/10W	<*****>			
R2500	1-216-295-00	SHORT	0	<*****>			



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C110	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C352	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C111	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C353	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C112	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C401	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C113	1-104-664-11	ELECT 47MF	20% 25V	C402	1-126-964-11	ELECT 10MF	20% 50V
C114	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C403	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C115	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C404	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C116	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C405	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C117	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C406	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C118	1-104-664-11	ELECT 47MF	20% 25V	C407	1-104-664-11	ELECT 47MF	20% 25V
C119	1-104-664-11	ELECT 47MF	20% 25V	C408	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C120	1-163-137-00	CERAMIC CHIP 680PF	5% 50V	C409	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C121	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C410	1-104-664-11	ELECT 47MF	20% 25V
C122	1-104-664-11	ELECT 47MF	20% 25V	C411	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C123	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C412	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C124	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C413	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C125	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C414	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C126	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C415	1-104-664-11	ELECT 47MF	20% 25V
C127	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	C416	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C128	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C417	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C129	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C418	1-126-964-11	ELECT 10MF	20% 50V
C300	1-164-346-11	CERAMIC CHIP 1MF	16V	C421	1-164-505-11	CERAMIC CHIP 2.2MF	16V
C301	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C422	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C303	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C423	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C304	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C424	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C305	1-164-505-11	CERAMIC CHIP 2.2MF	16V	C425	1-164-505-11	CERAMIC CHIP 2.2MF	16V
C306	1-164-505-11	CERAMIC CHIP 2.2MF	16V	C426	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C307	1-164-505-11	CERAMIC CHIP 2.2MF	16V	C427	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C308	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C428	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C309	1-104-664-11	ELECT 47MF	20% 25V	C430	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C310	1-126-962-11	ELECT 3.3MF	20% 50V	C431	1-126-964-11	ELECT 10MF	20% 50V
C311	1-126-934-11	ELECT 220MF	20% 16V	C432	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C312	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C433	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C313	1-164-346-11	CERAMIC CHIP 1MF	16V	C434	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C316	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C435	1-104-664-11	ELECT 47MF	20% 25V
C317	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C436	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C318	1-164-505-11	CERAMIC CHIP 2.2MF	16V	C437	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C319	1-126-964-11	ELECT 10MF	20% 50V	C438	1-104-664-11	ELECT 47MF	20% 25V
C321	1-164-346-11	CERAMIC CHIP 1MF	16V	C439	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C323	1-126-964-11	ELECT 10MF	20% 50V	C440	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C324	1-163-035-00	CERAMIC CHIP 0.047MF	50V	C441	1-104-664-11	ELECT 47MF	20% 25V
C325	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C442	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C326	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C443	1-126-967-11	ELECT 47MF	20% 50V
C327	1-137-581-11	FILM 0.1MF	5% 100V	C1001	1-163-233-11	CERAMIC CHIP 18PF	5% 50V
C328	1-130-777-00	FILM 0.1MF	5% 63V	C1002	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C329	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1004	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C330	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1006	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C331	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1008	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C332	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1009	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C333	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1010	1-163-245-11	CERAMIC CHIP 56PF	5% 50V
C334	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1011	1-163-245-11	CERAMIC CHIP 56PF	5% 50V
C335	1-104-664-11	ELECT 47MF	20% 25V	C1012	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C336	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1013	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C337	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V	C1014	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C338	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V	C1015	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C339	1-104-664-11	ELECT 47MF	20% 25V	C1016	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C340	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1017	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C341	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C1018	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C342	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C1019	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C343	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V	C1020	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C344	1-163-231-11	CERAMIC CHIP 15PF	5% 50V	C1021	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C345	1-163-231-11	CERAMIC CHIP 15PF	5% 50V	C1022	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C346	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1023	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C347	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1024	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C348	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1025	1-104-664-11	ELECT 47MF	20% 25V
C349	1-104-664-11	ELECT 47MF	20% 25V	C1026	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C350	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C1028	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C351	1-126-963-11	ELECT 4.7MF	20% 50V	C1029	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
				C1030	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V

**KP-EF41HK2/ME2/MN2/SN2, EF48HK2/ME2/MN2/SN2,  
EF53HK2/ME2/MN2/SN2 RM-871**



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1031	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V	C2071	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1032	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V	C2072	1-126-962-11	ELECT 3.3MF	20% 50V
C1033	1-163-259-91	CERAMIC CHIP 220PF 5%	50V	C2073	1-126-964-11	ELECT 10MF	20% 50V
C2001	1-164-346-11	CERAMIC CHIP 1MF	16V	C2074	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C2002	1-126-933-11	ELECT 100MF	20% 16V	C2075	1-163-131-00	CERAMIC CHIP 390PF	5% 50V
C2004	1-164-346-11	CERAMIC CHIP 1MF	16V	C2076	1-163-131-00	CERAMIC CHIP 390PF	5% 50V
C2005	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2077	1-126-964-11	ELECT 10MF	20% 50V
C2006	1-104-664-11	ELECT 47MF	20% 25V	C2078	1-126-964-11	ELECT 10MF	20% 50V
C2008	1-104-664-11	ELECT 47MF	20% 25V	C2079	1-104-664-11	ELECT 47MF	20% 25V
C2009	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C2080	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2010	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C2081	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C2011	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C2082	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C2012	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C2083	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2013	1-164-505-11	CERAMIC CHIP 2.2MF	16V	C2084	1-126-965-11	ELECT 22MF	20% 50V
C2014	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C2085	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C2015	1-104-664-11	ELECT 47MF	20% 25V	C2086	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C2016	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C2087	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C2017	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2088	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C2018	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2089	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C2019	1-126-968-11	ELECT 100MF	20% 50V	C2090	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C2020	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C2091	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2022	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C2092	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C2023	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C2093	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C2024	1-126-965-11	ELECT 22MF	20% 50V	C2094	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C2025	1-104-664-11	ELECT 47MF	20% 25V	C2095	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C2026	1-164-005-11	CERAMIC CHIP 0.47MF	25V			<CONNECTOR>	
C2027	1-126-965-11	ELECT 22MF	20% 50V	CN101	* 1-564-505-11	PLUG, CONNECTOR 2P	
C2029	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	CN102	1-695-915-11	TAB (CONTACT)	
C2030	1-164-346-11	CERAMIC CHIP 1MF	16V	CN103	1-695-915-11	TAB (CONTACT)	
C2031	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	CN104	1-695-915-11	TAB (CONTACT)	
C2032	1-164-346-11	CERAMIC CHIP 1MF	16V	CN401	* 1-564-515-11	PLUG, CONNECTOR 12P	
C2033	1-126-965-11	ELECT 22MF	20% 50V	CN402	* 1-564-516-11	PLUG, CONNECTOR 13P	
C2035	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	CN403	* 1-564-511-11	PLUG, CONNECTOR 8P	
C2036	1-164-346-11	CERAMIC CHIP 1MF	16V	CN405	* 1-564-510-11	PLUG, CONNECTOR 7P	
C2037	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	CN407	* 1-564-596-11	PLUG, CONNECTOR 15P	
C2038	1-164-346-11	CERAMIC CHIP 1MF	16V	CN408	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
C2039	1-104-666-11	ELECT 220MF	20% 25V	CN1002	* 1-564-515-11	PLUG, CONNECTOR 12P	
C2040	1-164-005-11	CERAMIC CHIP 0.47MF	25V	CN2001	* 1-770-747-11	CONNECTOR, BOARD TO BOARD 12P	
C2041	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	CN2004	* 1-564-507-11	PLUG, CONNECTOR 4P	
C2042	1-164-346-11	CERAMIC CHIP 1MF	16V			<DIODE>	
C2043	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	D101	8-719-988-61	DIODE 1SS355TE-17	
C2044	1-164-346-11	CERAMIC CHIP 1MF	16V	D102	8-719-422-12	DIODE MA8039	
C2045	1-126-965-11	ELECT 22MF	20% 50V	D104	8-719-976-96	DIODE DTZ4.7C	
C2046	1-164-005-11	CERAMIC CHIP 0.47MF	25V	D105	8-719-977-81	DIODE DTZ33B	
C2047	1-126-935-11	ELECT 470MF	20% 16V	D301	8-719-988-61	DIODE 1SS355TE-17	
C2048	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D306	8-719-988-61	DIODE 1SS355TE-17	
C2049	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D307	8-719-988-61	DIODE 1SS355TE-17	
C2050	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D401	8-719-047-16	DIODE BAS216	
C2051	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	D402	8-719-047-16	DIODE BAS216	
C2052	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V	D403	8-719-977-22	DIODE DTZ9.1	
C2053	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V	D414	8-719-988-61	DIODE 1SS355TE-17	
C2054	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D2001	8-719-977-22	DIODE DTZ9.1	
C2055	1-104-664-11	ELECT 47MF	20% 25V	D2002	8-719-977-22	DIODE DTZ9.1	
C2056	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D2003	8-719-977-22	DIODE DTZ9.1	
C2057	1-104-664-11	ELECT 47MF	20% 25V	D2004	8-719-977-22	DIODE DTZ9.1	
C2059	1-126-964-11	ELECT 10MF	20% 50V	D2005	8-719-977-22	DIODE DTZ9.1	
C2060	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D2006	8-719-977-22	DIODE DTZ9.1	
C2061	1-126-934-11	ELECT 220MF	20% 16V	D2007	8-719-977-22	DIODE DTZ9.1	
C2062	1-126-965-11	ELECT 22MF	20% 50V	D2008	8-719-977-22	DIODE DTZ9.1	
C2063	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D2009	8-719-977-22	DIODE DTZ9.1	
C2064	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D2010	8-719-977-22	DIODE DTZ9.1	
C2065	1-126-965-11	ELECT 22MF	20% 50V	D2011	8-719-977-22	DIODE DTZ9.1	
C2066	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D2012	8-719-977-22	DIODE DTZ9.1	
C2067	1-164-005-11	CERAMIC CHIP 0.47MF	25V	D2013	8-719-977-22	DIODE DTZ9.1	
C2068	1-104-664-11	ELECT 47MF	20% 25V				
C2069	1-163-133-00	CERAMIC CHIP 470PF	5% 50V				
C2070	1-163-133-00	CERAMIC CHIP 470PF	5% 50V				



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D2014	8-719-977-22	DIODE DTZ9.1				<TRANSISTOR>	
D2015	8-719-047-16	DIODE BAS216		Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<FERRITE BEAD>		Q102	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FB401	1-414-235-11	INDUCTOR CHIP 0UH		Q103	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FB402	1-414-235-11	INDUCTOR CHIP 0UH		Q104	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
FB403	1-414-235-11	INDUCTOR CHIP 0UH		Q301	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FB404	1-414-235-11	INDUCTOR CHIP 0UH		Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FB405	1-414-235-11	INDUCTOR CHIP 0UH		Q304	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
FB406	1-414-235-11	INDUCTOR CHIP 0UH		Q308	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FB407	1-414-235-11	INDUCTOR CHIP 0UH		Q309	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FB2001	1-414-235-11	INDUCTOR CHIP 0UH		Q310	1-801-806-11	TRANSISTOR DTC144EKA-T146	
FB2002	1-414-235-11	INDUCTOR CHIP 0UH		Q311	1-801-806-11	TRANSISTOR DTC144EKA-T146	
FB2003	1-414-235-11	INDUCTOR CHIP 0UH		Q312	1-801-806-11	TRANSISTOR DTC144EKA-T146	
FB2004	1-414-235-11	INDUCTOR CHIP 0UH		Q313	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FB2005	1-414-235-11	INDUCTOR CHIP 0UH		Q401	8-729-027-38	TRANSISTOR DTA144EKA-T146	
FB2006	1-414-235-11	INDUCTOR CHIP 0UH		Q402	1-801-806-11	TRANSISTOR DTC144EKA-T146	
		<FILTER>		Q403	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL101	1-236-071-11	ENCAPSULATED COMPONENT		Q404	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL102	1-236-071-11	ENCAPSULATED COMPONENT		Q405	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL103	1-236-071-11	ENCAPSULATED COMPONENT		Q406	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL104	1-236-071-11	ENCAPSULATED COMPONENT		Q407	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL105	1-236-071-11	ENCAPSULATED COMPONENT		Q408	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL401	1-233-765-21	FILTER		Q409	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL402	1-233-765-21	FILTER		Q410	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL403	1-233-765-21	FILTER		Q412	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
FL1001	1-236-071-11	ENCAPSULATED COMPONENT		Q414	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<IC>		Q415	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC301	8-752-076-87	IC CXA2050S		Q416	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC401	8-759-436-89	IC MC141627FT		Q417	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC402	8-759-430-79	IC TDA8395T/N3		Q418	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC403	8-759-565-20	IC TDA4665T/V5-118		Q419	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC404	8-752-072-94	IC CXA1875AM-T4		Q420	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC1001	8-759-527-76	IC M24C08-MN6T		Q421	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC1002	8-759-394-57	IC PST593C-MMP-4P		Q422	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC1003	8-752-904-42	IC CXP85452-214Q-TL	(GE/HK/AUS MODEL)	Q423	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC1003	8-752-904-61	IC CXP85452-215Q-TL (ME MODEL)		Q425	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC2001	8-759-090-21	IC TDA8424		Q426	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC2002	8-752-068-45	IC CXA1855Q		Q2001	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC2003	8-759-491-95	IC MSP3410D-PS-B4-T-ND		Q2002	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC2004	8-759-100-96	IC uPC4558G2		Q2003	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC2006	8-759-394-57	IC PST593C-MMP-4P		Q2004	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<JACK>		Q2005	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
J2001	1-565-666-12	TERMINAL, S 4P (S-VIDEO IN)		Q2006	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
J2002	1-784-652-11	JACK BLOCK, PIN 12P	(AUDIO/VIDEO IN, OUT)	Q2007	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<COIL>		Q2008	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L101	1-412-006-31	INDUCTOR CHIP 10UH		Q2009	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L102	1-412-005-11	INDUCTOR CHIP 8.2UH		Q2010	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L103	1-412-005-11	INDUCTOR CHIP 8.2UH		Q2011	8-729-822-44	TRANSISTOR 2SA1524	
L104	1-410-993-11	INDUCTOR CHIP 1UH		Q2012	1-801-806-11	TRANSISTOR DTC144EKA-T146	
L105	1-412-006-31	INDUCTOR CHIP 10UH				<RESISTOR>	
L301	1-408-603-31	INDUCTOR 10UH		R101	1-216-065-00	RES,CHIP 4.7K 5% 1/10W	
L401	1-412-002-31	INDUCTOR CHIP 4.7UH		R102	1-216-025-00	RES,CHIP 100 5% 1/10W	
L1001	1-408-605-31	INDUCTOR 15UH		R103	1-216-025-00	RES,CHIP 100 5% 1/10W	
				R104	1-216-025-00	RES,CHIP 100 5% 1/10W	
				R106	1-216-027-00	RES,CHIP 120 5% 1/10W	
				R107	1-216-069-00	RES,CHIP 6.8K 5% 1/10W	
				R108	1-216-043-91	RES,CHIP 560 5% 1/10W	
				R109	1-216-075-00	RES,CHIP 12K 5% 1/10W	
				R111	1-216-033-00	RES,CHIP 220 5% 1/10W	
				R112	1-216-025-00	RES,CHIP 100 5% 1/10W	
				R113	1-216-041-00	RES,CHIP 470 5% 1/10W	
				R114	1-216-069-00	RES,CHIP 6.8K 5% 1/10W	
				R115	1-216-049-00	RES,CHIP 1K 5% 1/10W	
				R116	1-216-025-00	RES,CHIP 100 5% 1/10W	
				R117	1-216-025-00	RES,CHIP 100 5% 1/10W	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R118	1-216-037-00	RES,CHIP	330 5% 1/10W	R375	1-216-105-00	RES,CHIP	220K 5% 1/10W
R119	1-216-059-00	RES,CHIP	2.7K 5% 1/10W	R401	1-216-041-00	RES,CHIP	470 5% 1/10W
R120	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R402	1-216-041-00	RES,CHIP	470 5% 1/10W
R121	1-216-095-00	RES,CHIP	82K 5% 1/10W	R403	1-216-041-00	RES,CHIP	470 5% 1/10W
R122	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R404	1-216-025-00	RES,CHIP	100 5% 1/10W
R123	1-208-845-11	RES,CHIP	1M 5% 1/10W	R405	1-216-025-00	RES,CHIP	100 5% 1/10W
R124	1-216-081-00	RES,CHIP	22K 5% 1/10W	R406	1-216-025-00	RES,CHIP	100 5% 1/10W
R125	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R407	1-216-025-00	RES,CHIP	100 5% 1/10W
R126	1-216-073-00	RES,CHIP	10K 5% 1/10W	R408	1-216-025-00	RES,CHIP	100 5% 1/10W
R127	1-216-097-00	RES,CHIP	100K 5% 1/10W	R409	1-216-025-00	RES,CHIP	100 5% 1/10W
R192	1-216-049-00	RES,CHIP	1K 5% 1/10W	R410	1-216-025-00	RES,CHIP	100 5% 1/10W
R193	1-216-049-00	RES,CHIP	1K 5% 1/10W	R411	1-216-025-00	RES,CHIP	100 5% 1/10W
R194	1-216-049-00	RES,CHIP	1K 5% 1/10W	R412	1-216-025-00	RES,CHIP	100 5% 1/10W
R195	1-216-049-00	RES,CHIP	1K 5% 1/10W	R413	1-216-295-00	SHORT	0
R301	1-216-049-00	RES,CHIP	1K 5% 1/10W	R414	1-216-073-00	RES,CHIP	10K 5% 1/10W
R303	1-216-025-00	RES,CHIP	100 5% 1/10W	R417	1-216-295-00	SHORT	0
R304	1-216-045-00	RES,CHIP	680 5% 1/10W	R418	1-216-033-00	RES,CHIP	220 5% 1/10W
R305	1-216-109-00	RES,CHIP	330K 5% 1/10W	R419	1-216-652-11	METAL CHIP	1.1K 0.50% 1/10W
R307	1-216-129-00	RES,CHIP	2.2M 5% 1/10W	R420	1-216-081-00	RES,CHIP	22K 5% 1/10W
R308	1-216-059-00	RES,CHIP	2.7K 5% 1/10W	R421	1-216-049-00	RES,CHIP	1K 5% 1/10W
R309	1-216-089-00	RES,CHIP	47K 5% 1/10W	R422	1-216-041-00	RES,CHIP	470 5% 1/10W
R310	1-216-089-00	RES,CHIP	47K 5% 1/10W	R423	1-216-049-00	RES,CHIP	1K 5% 1/10W
R311	1-216-025-00	RES,CHIP	100 5% 1/10W	R424	1-216-033-00	RES,CHIP	220 5% 1/10W
R315	1-216-049-00	RES,CHIP	1K 5% 1/10W	R425	1-216-041-00	RES,CHIP	470 5% 1/10W
R316	1-216-049-00	RES,CHIP	1K 5% 1/10W	R426	1-216-049-00	RES,CHIP	1K 5% 1/10W
R317	1-216-025-00	RES,CHIP	100 5% 1/10W	R427	1-216-077-00	RES,CHIP	15K 5% 1/10W
R318	1-216-025-00	RES,CHIP	100 5% 1/10W	R428	1-216-025-00	RES,CHIP	100 5% 1/10W
R319	1-216-025-00	RES,CHIP	100 5% 1/10W	R429	1-216-025-00	RES,CHIP	100 5% 1/10W
R320	1-216-025-00	RES,CHIP	100 5% 1/10W	R430	1-216-025-00	RES,CHIP	100 5% 1/10W
R321	1-216-025-00	RES,CHIP	100 5% 1/10W	R431	1-216-025-00	RES,CHIP	100 5% 1/10W
R322	1-216-025-00	RES,CHIP	100 5% 1/10W	R432	1-216-001-00	RES,CHIP	10 5% 1/10W
R323	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R433	1-216-001-00	RES,CHIP	10 5% 1/10W
R324	1-216-049-00	RES,CHIP	1K 5% 1/10W	R434	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R325	1-216-025-00	RES,CHIP	100 5% 1/10W	R435	1-216-025-00	RES,CHIP	100 5% 1/10W
R329	1-216-125-00	RES,CHIP	1.5M 5% 1/10W	R437	1-216-025-00	RES,CHIP	100 5% 1/10W
R331	1-216-041-00	RES,CHIP	470 5% 1/10W	R440	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R332	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R441	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R333	1-216-033-00	RES,CHIP	220 5% 1/10W	R442	1-216-069-00	RES,CHIP	6.8K 5% 1/10W
R335	1-216-129-00	RES,CHIP	2.2M 5% 1/10W	R443	1-216-043-91	RES,CHIP	560 5% 1/10W
R338	1-216-025-00	RES,CHIP	100 5% 1/10W	R444	1-216-295-00	SHORT	0
R339	1-216-025-00	RES,CHIP	100 5% 1/10W	R445	1-216-049-00	RES,CHIP	1K 5% 1/10W
R340	1-216-295-00	SHORT	0	R446	1-216-081-00	RES,CHIP	22K 5% 1/10W
R341	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R447	1-216-049-00	RES,CHIP	1K 5% 1/10W
R348	1-216-077-00	RES,CHIP	15K 5% 1/10W	R448	1-216-049-00	RES,CHIP	1K 5% 1/10W
R349	1-216-644-11	METAL CHIP	510 0.50% 1/10W	R449	1-216-049-00	RES,CHIP	1K 5% 1/10W
R350	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R450	1-216-295-00	SHORT	0
R352	1-216-033-00	RES,CHIP	220 5% 1/10W	R451	1-216-017-00	RES,CHIP	47 5% 1/10W
R353	1-216-033-00	RES,CHIP	220 5% 1/10W	R452	1-216-025-00	RES,CHIP	100 5% 1/10W
R354	1-216-049-00	RES,CHIP	1K 5% 1/10W	R453	1-216-089-00	RES,CHIP	47K 5% 1/10W
R355	1-216-033-00	RES,CHIP	220 5% 1/10W	R454	1-216-073-00	RES,CHIP	10K 5% 1/10W
R356	1-216-025-00	RES,CHIP	100 5% 1/10W	R455	1-216-025-00	RES,CHIP	100 5% 1/10W
R357	1-216-025-00	RES,CHIP	100 5% 1/10W	R456	1-216-025-00	RES,CHIP	100 5% 1/10W
R358	1-216-025-00	RES,CHIP	100 5% 1/10W	R457	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R359	1-216-025-00	RES,CHIP	100 5% 1/10W	R458	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R360	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R459	1-216-045-00	RES,CHIP	680 5% 1/10W
R361	1-216-033-00	RES,CHIP	220 5% 1/10W	R460	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R362	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R461	1-216-043-91	RES,CHIP	560 5% 1/10W
R363	1-216-025-00	RES,CHIP	100 5% 1/10W	R462	1-216-039-00	RES,CHIP	390 5% 1/10W
R365	1-216-049-00	RES,CHIP	1K 5% 1/10W	R463	1-216-025-00	RES,CHIP	100 5% 1/10W
R366	1-216-049-00	RES,CHIP	1K 5% 1/10W	R464	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R367	1-216-093-91	RES,CHIP	68K 5% 1/10W	R465	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R368	1-216-133-00	RES,CHIP	3.3M 5% 1/10W	R466	1-216-045-00	RES,CHIP	680 5% 1/10W
R369	1-216-025-00	RES,CHIP	100 5% 1/10W	R467	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R370	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R468	1-216-033-00	RES,CHIP	220 5% 1/10W
R371	1-216-073-00	RES,CHIP	10K 5% 1/10W	R469	1-216-043-91	RES,CHIP	560 5% 1/10W
R372	1-216-049-00	RES,CHIP	1K 5% 1/10W	R470	1-216-033-00	RES,CHIP	220 5% 1/10W
R374	1-216-295-00	SHORT	0	R471	1-216-025-00	RES,CHIP	100 5% 1/10W





REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R472	1-216-033-00	RES,CHIP	220 5% 1/10W	R2004	1-216-039-00	RES,CHIP	390 5% 1/10W
R473	1-216-025-00	RES,CHIP	100 5% 1/10W	R2005	1-216-025-00	RES,CHIP	100 5% 1/10W
R474	1-216-025-00	RES,CHIP	100 5% 1/10W	R2006	1-216-041-00	RES,CHIP	470 5% 1/10W
R475	1-216-025-00	RES,CHIP	100 5% 1/10W	R2007	1-216-025-00	RES,CHIP	100 5% 1/10W
R476	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2008	1-216-041-00	RES,CHIP	470 5% 1/10W
R1005	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W	R2009	1-216-025-00	RES,CHIP	100 5% 1/10W
R1006	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W	R2010	1-216-025-00	RES,CHIP	100 5% 1/10W
R1007	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R2012	1-216-025-00	RES,CHIP	100 5% 1/10W
R1008	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R2013	1-216-025-00	RES,CHIP	100 5% 1/10W
R1009	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R2014	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1010	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R2015	1-216-025-00	RES,CHIP	100 5% 1/10W
R1011	1-216-025-00	RES,CHIP	100 5% 1/10W	R2016	1-216-097-00	RES,CHIP	100K 5% 1/10W
R1012	1-216-025-00	RES,CHIP	100 5% 1/10W	R2017	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1013	1-216-025-00	RES,CHIP	100 5% 1/10W	R2018	1-216-025-00	RES,CHIP	100 5% 1/10W
R1014	1-216-025-00	RES,CHIP	100 5% 1/10W	R2019	1-216-097-00	RES,CHIP	100K 5% 1/10W
R1015	1-216-025-00	RES,CHIP	100 5% 1/10W	R2020	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1016	1-216-025-00	RES,CHIP	100 5% 1/10W	R2022	1-216-022-00	RES,CHIP	75 5% 1/10W
R1017	1-216-025-00	RES,CHIP	100 5% 1/10W	R2023	1-216-033-00	RES,CHIP	220 5% 1/10W
R1018	1-216-025-00	RES,CHIP	100 5% 1/10W	R2024	1-216-025-00	RES,CHIP	100 5% 1/10W
R1019	1-216-025-00	RES,CHIP	100 5% 1/10W	R2025	1-216-025-00	RES,CHIP	100 5% 1/10W
R1020	1-216-025-00	RES,CHIP	100 5% 1/10W	R2026	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1022	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R2027	1-216-033-00	RES,CHIP	220 5% 1/10W
R1023	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R2028	1-216-025-00	RES,CHIP	100 5% 1/10W
R1024	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R2029	1-216-022-00	RES,CHIP	75 5% 1/10W
R1025	1-216-033-00	RES,CHIP	220 5% 1/10W	R2030	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1026	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2031	1-216-025-00	RES,CHIP	100 5% 1/10W
R1027	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R2032	1-216-022-00	RES,CHIP	75 5% 1/10W
R1028	1-216-025-00	RES,CHIP	100 5% 1/10W	R2033	1-216-033-00	RES,CHIP	220 5% 1/10W
R1029	1-216-025-00	RES,CHIP	100 5% 1/10W	R2034	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R1031	1-216-295-00	SHORT	0	R2035	1-216-025-00	RES,CHIP	100 5% 1/10W
R1032	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2036	1-216-113-00	RES,CHIP	470K 5% 1/10W
R1033	1-216-295-00	SHORT	0	R2037	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1035	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2038	1-216-025-00	RES,CHIP	100 5% 1/10W
R1036	1-216-025-00	RES,CHIP	100 5% 1/10W	R2039	1-216-113-00	RES,CHIP	470K 5% 1/10W
R1038	1-216-025-00	RES,CHIP	100 5% 1/10W	R2040	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1039	1-216-025-00	RES,CHIP	100 5% 1/10W	R2041	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1040	1-216-025-00	RES,CHIP	100 5% 1/10W	R2042	1-216-022-00	RES,CHIP	75 5% 1/10W
R1041	1-216-025-00	RES,CHIP	100 5% 1/10W	R2043	1-216-033-00	RES,CHIP	220 5% 1/10W
R1042	1-216-025-00	RES,CHIP	100 5% 1/10W	R2044	1-216-033-00	RES,CHIP	220 5% 1/10W
R1043	1-216-025-00	RES,CHIP	100 5% 1/10W	R2045	1-216-033-00	RES,CHIP	220 5% 1/10W
R1044	1-216-025-00	RES,CHIP	100 5% 1/10W	R2046	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1047	1-216-025-00	RES,CHIP	100 5% 1/10W	R2047	1-216-113-00	RES,CHIP	470K 5% 1/10W
R1048	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2048	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1050	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2049	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1051	1-216-025-00	RES,CHIP	100 5% 1/10W	R2050	1-216-025-00	RES,CHIP	100 5% 1/10W
R1052	1-216-025-00	RES,CHIP	100 5% 1/10W	R2051	1-216-113-00	RES,CHIP	470K 5% 1/10W
R1053	1-216-025-00	RES,CHIP	100 5% 1/10W	R2052	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1054	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2053	1-216-023-00	RES,CHIP	82 5% 1/10W
R1055	1-216-025-00	RES,CHIP	100 5% 1/10W	R2054	1-216-048-00	RES,CHIP	910 5% 1/10W
R1056	1-216-025-00	RES,CHIP	100 5% 1/10W	R2056	1-216-041-00	RES,CHIP	470 5% 1/10W
R1057	1-216-025-00	RES,CHIP	100 5% 1/10W	R2057	1-216-113-00	RES,CHIP	470K 5% 1/10W
R1058	1-216-025-00	RES,CHIP	100 5% 1/10W	R2058	1-216-089-00	RES,CHIP	47K 5% 1/10W
R1060	1-216-025-00	RES,CHIP	100 5% 1/10W	R2059	1-216-113-00	RES,CHIP	470K 5% 1/10W
R1061	1-216-025-00	RES,CHIP	100 5% 1/10W	R2060	1-216-089-00	RES,CHIP	47K 5% 1/10W
R1062	1-216-025-00	RES,CHIP	100 5% 1/10W	R2061	1-216-041-00	RES,CHIP	470 5% 1/10W
R1064	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2063	1-216-113-00	RES,CHIP	470K 5% 1/10W
R1065	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2064	1-216-021-00	RES,CHIP	68 5% 1/10W
R1066	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2065	1-216-033-00	RES,CHIP	220 5% 1/10W
R1067	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2066	1-216-039-00	RES,CHIP	390 5% 1/10W
R1068	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2067	1-216-089-00	RES,CHIP	47K 5% 1/10W
R1069	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2068	1-216-295-00	SHORT	0
R1070	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2069	1-216-039-00	RES,CHIP	390 5% 1/10W
R1071	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2070	1-216-089-00	RES,CHIP	47K 5% 1/10W
R1072	1-216-025-00	RES,CHIP	100 5% 1/10W	R2071	1-216-295-00	SHORT	0
R2001	1-216-025-00	RES,CHIP	100 5% 1/10W	R2072	1-216-025-00	RES,CHIP	100 5% 1/10W
R2002	1-216-039-00	RES,CHIP	390 5% 1/10W	R2073	1-216-025-00	RES,CHIP	100 5% 1/10W
R2003	1-216-025-00	RES,CHIP	100 5% 1/10W	R2074	1-216-025-00	RES,CHIP	100 5% 1/10W
				R2075	1-216-025-00	RES,CHIP	100 5% 1/10W

KP-EF41HK2/ME2/MN2/SN2, EF48HK2/ME2/MN2/SN2,  
EF53HK2/ME2/MN2/SN2 RM-871



The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R2076	1-216-025-00	RES,CHIP	100 5% 1/10W	C6018	1-119-868-11	ELECT	820MF 20% 450V
R2077	1-216-025-00	RES,CHIP	100 5% 1/10W	C6019	1-104-664-11	ELECT	47MF 20% 25V
R2078	1-249-389-11	CARBON	4.7 5% 1/4W F	C6020	1-104-665-11	ELECT	100MF 20% 25V
R2079	1-216-049-00	RES,CHIP	1K 5% 1/10W	C6021	1-126-961-11	ELECT	2.2MF 20% 50V
R2080	1-216-073-00	RES,CHIP	10K 5% 1/10W	C6022	1-137-370-11	FILM	0.01MF 5% 50V
R2081	1-216-089-00	RES,CHIP	47K 5% 1/10W	C6023	1-102-112-00	CERAMIC	330PF 10% 50V
R2082	1-216-089-00	RES,CHIP	47K 5% 1/10W	C6024	1-126-960-11	ELECT	1MF 20% 50V
R2083	1-216-048-00	RES,CHIP	910 5% 1/10W	C6025	1-136-165-00	FILM	0.1MF 5% 50V
R2084	1-216-041-00	RES,CHIP	470 5% 1/10W	C6026	1-104-665-11	ELECT	100MF 20% 25V
R2085	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	C6028	1-125-969-91	CERAMIC	680PF 10% 1KV
R2086	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	C6029	1-125-969-91	CERAMIC	680PF 10% 1KV
R2087	1-216-049-00	RES,CHIP	1K 5% 1/10W	C6030	1-115-405-11	FILM	0.039MF 3% 1KV
R2088	1-216-089-00	RES,CHIP	47K 5% 1/10W	C6031	1-126-964-11	ELECT	10MF 20% 50V
R2089	1-216-089-00	RES,CHIP	47K 5% 1/10W	C6032	1-126-964-11	ELECT	10MF 20% 50V
R2090	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	C6033	1-136-479-11	FILM	0.001MF 2% 50V
R2091	1-216-089-00	RES,CHIP	47K 5% 1/10W	C6034	1-101-810-00	CERAMIC	100PF 5% 500V
R2092	1-216-089-00	RES,CHIP	47K 5% 1/10W	C6035	1-101-810-00	CERAMIC	100PF 5% 500V
R2093	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	C6036	1-126-768-11	ELECT	2200MF 20% 16V
R2094	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	C6037	1-126-943-11	ELECT	2200MF 20% 25V
R2095	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	C6038	1-128-548-11	ELECT	4700MF 20% 25V
R2096	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	C6039	1-126-972-11	ELECT	1000MF 20% 50V
R2097	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	C6040	1-126-972-11	ELECT	1000MF 20% 50V
R2098	1-216-025-00	RES,CHIP	100 5% 1/10W	C6041	1-126-960-11	ELECT	1MF 20% 50V
R2099	1-216-025-00	RES,CHIP	100 5% 1/10W	C6042	1-104-665-11	ELECT	100MF 20% 25V
R2100	1-216-025-00	RES,CHIP	100 5% 1/10W	C6043	1-126-964-11	ELECT	10MF 20% 50V
R2101	1-216-295-00	SHORT	0	C6044	1-107-641-11	ELECT	220MF 20% 160V
R2102	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	C6045	1-104-665-11	ELECT	100MF 20% 25V
R2103	1-216-025-00	RES,CHIP	100 5% 1/10W	C6046	1-104-665-11	ELECT	100MF 20% 25V
R3301	1-216-295-00	SHORT	0	C6047	1-102-112-00	CERAMIC	330PF 10% 50V
R3302	1-216-295-00	SHORT	0	C6048	1-126-960-11	ELECT	1MF 20% 50V
R3303	1-216-295-00	SHORT	0	C6049	1-136-165-00	FILM	0.1MF 5% 50V
R3390	1-216-039-00	RES,CHIP	390 5% 1/10W	C6050	1-109-954-11	ELECT	0.47MF 20% 160V
<TUNER>				C6051	1-126-935-11	ELECT	470MF 20% 6.3V
TU101	$\Delta$ 8-598-372-20	TUNER, FSS BTF-FG441		C6052	1-125-969-91	CERAMIC	680PF 10% 1KV
<CRYSTAL>				C6053	1-125-969-91	CERAMIC	680PF 10% 1KV
X301	1-767-127-11	VIBRATOR, CERAMIC		C6055	1-107-641-11	ELECT	220MF 20% 160V
X302	1-567-504-11	OSCILLATOR, CRYSTAL		C6056	1-137-370-11	FILM	0.01MF 5% 50V
X303	1-567-505-11	OSCILLATOR, CRYSTAL		C6058	1-102-114-00	CERAMIC	470PF 10% 50V
X1001	1-577-358-21	VIBRATOR, CERAMIC		C6059	1-102-114-00	CERAMIC	470PF 10% 50V
X2001	1-760-628-11	VIBRATOR, CRYSTAL		C6060	1-102-114-00	CERAMIC	470PF 10% 50V
<CAPACITOR>				C6061	1-102-114-00	CERAMIC	470PF 10% 50V
C6001	$\Delta$ 1-119-894-51	CERAMIC	2200PF 20% 250V	C6062	1-102-114-00	CERAMIC	470PF 10% 50V
C6002	$\Delta$ 1-104-708-51	FILM	0.47MF 20% 250V	C6063	1-102-114-00	CERAMIC	470PF 10% 50V
C6003	1-126-943-11	ELECT	2200MF 20% 25V	C6064	$\Delta$ 1-161-964-51	CERAMIC	0.0047MF 250V
C6004	1-104-665-11	ELECT	100MF 20% 25V	C6065	$\Delta$ 1-161-964-51	CERAMIC	0.0047MF 250V
C6006	$\Delta$ 1-104-706-51	FILM	0.22MF 20% 250V	<CONNECTOR>			
C6007	$\Delta$ 1-119-894-51	CERAMIC	2200PF 20% 250V	CN6001	1-695-915-11	TAB (CONTACT)	
C6009	1-102-114-00	CERAMIC	470PF 10% 50V	CN6002	1-695-915-11	TAB (CONTACT)	
C6010	1-102-112-00	CERAMIC	330PF 10% 50V	CN6005	* 1-580-843-11	PIN, CONNECTOR (POWER)	
C6011	1-107-678-11	ELECT	4.7MF 20% 450V	CN6006	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
C6012	1-102-112-00	CERAMIC	330PF 10% 50V	CN6007	* 1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
C6013	1-117-227-11	FILM	1MF 10% 450V	CN6008	* 1-564-509-11	PLUG, CONNECTOR 6P	
C6014	1-126-968-11	ELECT	100MF 20% 50V	CN6009	1-695-915-11	TAB (CONTACT)	
C6016	1-126-964-11	ELECT	10MF 20% 50V	CN6011	* 1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P	
<DIODE>				CN6012	* 1-508-766-00	PIN, CONNECTOR (5mm PITCH) 4P	
D6001	8-719-110-31	DIODE RD12ESB2		CN6013	* 1-508-765-00	PIN, CONNECTOR (5mm PITCH) 3P	
D6002	8-719-052-91	DIODE D4SBS4-F		<DIODE>			
D6003	8-719-022-99	DIODE D6SB60L		D6001	8-719-110-31	DIODE RD12ESB2	
D6004	8-719-057-96	DIODE D10SC6M-4012		D6002	8-719-052-91	DIODE D4SBS4-F	
D6005	8-719-921-88	DIODE MTZJ-13B		D6003	8-719-022-99	DIODE D6SB60L	
D6006	8-719-991-33	DIODE 1SS133T-77		D6004	8-719-057-96	DIODE D10SC6M-4012	
D6007	8-719-911-55	DIODE U05G		D6005	8-719-921-88	DIODE MTZJ-13B	

The components identified by shading and mark  $\Delta$  are critical for safety.  
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**KP-EF41HK2/ME2/MN2/SN2, EF48HK2/ME2/MN2/SN2, EF53HK2/ME2/MN2/SN2 RM-871**

**G**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D6008	8-719-979-64	DIODE UF4005PKG23		L6010	1-412-523-41	INDUCTOR 6.8UH	
D6009	8-719-059-23	DIODE P6KE200AG23		L6011	1-412-525-31	INDUCTOR 10UH	
D6010	8-719-028-72	DIODE RGP02-17EL-6433		L6012	1-406-971-21	INDUCTOR 10UH	
D6011	8-719-982-26	DIODE MTZJ-33B				<IC LINK>	
D6012	8-719-991-33	DIODE 1SS133T-77		PS6001	$\Delta$ 1-533-595-31	LINK, IC	
D6013	8-719-110-03	DIODE RD7.5ESB2		PS6002	$\Delta$ 1-533-595-31	LINK, IC	
D6014	8-719-991-33	DIODE 1SS133T-77		PS6003	$\Delta$ 1-533-597-31	LINK, IC	
D6015	8-719-991-33	DIODE 1SS133T-77				<TRANSISTOR>	
D6016	8-719-991-33	DIODE 1SS133T-77		Q6001	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D6017	8-719-063-73	DIODE D1NL20U-TR		Q6002	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D6018	8-719-991-33	DIODE 1SS133T-77		Q6003	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR	
D6019	8-719-991-33	DIODE 1SS133T-77		Q6004	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D6020	8-719-991-33	DIODE 1SS133T-77		Q6005	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR	
D6021	8-719-979-64	DIODE UF4005PKG23		Q6006	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D6022	8-719-110-53	DIODE RD20ESB2		Q6007	8-729-028-10	TRANSISTOR IRFI744G-LF	
D6023	8-719-979-64	DIODE UF4005PKG23		Q6008	8-729-028-10	TRANSISTOR IRFI744G-LF	
D6024	8-719-110-53	DIODE RD20ESB2		Q6009	8-729-140-97	TRANSISTOR 2SB734-34	
D6025	8-719-063-73	DIODE D1NL20U-TR		Q6010	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D6026	8-719-110-53	DIODE RD20ESB2		Q6011	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D6027	8-719-110-53	DIODE RD20ESB2		Q6012	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR	
D6028	8-719-911-19	DIODE 1SS119-25		Q6013	8-729-820-82	TRANSISTOR 2SA1208-T	
D6029	8-719-991-33	DIODE 1SS133T-77		Q6014	8-729-028-10	TRANSISTOR IRFI744G-LF	
D6032	8-719-991-33	DIODE 1SS133T-77		Q6015	8-729-028-10	TRANSISTOR IRFI744G-LF	
D6033	8-719-991-33	DIODE 1SS133T-77		Q6016	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR	
D6035	8-719-018-83	DIODE D2S4M		Q6017	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR	
D6036	8-719-018-83	DIODE D2S4M		Q6018	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D6037	8-719-031-78	DIODE S2L40F				<RESISTOR>	
D6038	8-719-312-47	DIODE RBA-406B		R6000	$\Delta$ 1-202-885-91	SOLID 1M 20% 1/2W	
D6042	8-719-979-64	DIODE UF4005PKG23		R6001	1-216-049-00	RES,CHIP 1K 5% 1/10W	
D6043	8-719-110-53	DIODE RD20ESB2		R6002	$\Delta$ 1-218-265-21	METAL 8.2M 5% 1W	
D6044	8-719-979-64	DIODE UF4005PKG23		R6003	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
D6045	8-719-110-53	DIODE RD20ESB2		R6004	1-215-481-00	METAL 330K 1% 1/4W	
D6046	8-719-110-53	DIODE RD20ESB2		R6005	1-215-481-00	METAL 330K 1% 1/4W	
D6047	8-719-110-53	DIODE RD20ESB2		R6006	1-215-482-00	METAL 360K 1% 1/4W	
D6048	8-719-921-88	DIODE MTZJ-13B		R6007	1-216-065-00	RES,CHIP 4.7K 5% 1/10W	
D6049	8-719-031-78	DIODE S2L40F		R6008	1-216-099-00	RES,CHIP 120K 5% 1/10W	
D6050	8-719-991-33	DIODE 1SS133T-77		R6009	1-215-479-00	METAL 270K 1% 1/4W	
D6051	8-719-991-33	DIODE 1SS133T-77		R6010	1-215-479-00	METAL 270K 1% 1/4W	
		<FUSE>		R6011	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
F6001	$\Delta$ 1-576-232-11	FUSE (H.B.C.) 5A/250V		R6012	1-216-657-11	METAL CHIP 1.8K 0.50% 1/10W	
	1-533-230-11	HOLDER, FUSE ; F6001		R6013	1-202-962-11	CEMENTED 3.3 5% 10W	
		<FERRITE BEAD>		R6014	1-216-089-00	RES,CHIP 47K 5% 1/10W	
FB6009	1-410-397-21	FERRITE 1.1UH		R6015	1-247-895-00	CARBON 470K 5% 1/4W	
		<IC>		R6016	1-216-089-00	RES,CHIP 47K 5% 1/10W	
IC6001	$\Delta$ 8-759-468-89	IC TOP209P		R6017	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
IC6002	8-759-103-93	IC $\mu$ PC393C		R6018	1-216-089-00	RES,CHIP 47K 5% 1/10W	
IC6003	8-759-185-47	IC IR2112		R6019	1-216-089-00	RES,CHIP 47K 5% 1/10W	
IC6004	8-759-077-25	IC IR3M02A		R6020	1-216-691-11	METAL CHIP 47K 0.50% 1/10W	
IC6005	$\Delta$ 8-749-924-35	PHOTO COUPLER ON3171-R		R6021	1-216-081-00	RES,CHIP 22K 5% 1/10W	
IC6006	$\Delta$ 8-749-924-35	PHOTO COUPLER ON3171-R		R6022	1-247-791-91	CARBON 22 5% 1/4W	
IC6007	8-759-185-47	IC IR2112		R6023	1-216-049-00	RES,CHIP 1K 5% 1/10W	
IC6008	8-749-920-61	IC SE-135N		R6024	$\Delta$ 1-240-303-11	CMT,MELF 0.22 5% 10W	
		<COIL>		R6025	1-249-402-11	CARBON 56 5% 1/4W	F
L6002	1-412-525-31	INDUCTOR 10UH		R6026	$\Delta$ 1-240-303-11	CMT,MELF 0.22 5% 10W	
L6003	1-412-525-31	INDUCTOR 10UH		R6027	1-216-065-00	RES,CHIP 4.7K 5% 1/10W	
L6004	1-412-525-31	INDUCTOR 10UH		R6028	1-249-437-11	CARBON 47K 5% 1/4W	
L6005	1-412-525-31	INDUCTOR 10UH		R6029	1-216-065-00	RES,CHIP 4.7K 5% 1/10W	
L6006	1-412-525-31	INDUCTOR 10UH		R6030	1-216-049-00	RES,CHIP 1K 5% 1/10W	
L6008	1-412-533-21	INDUCTOR 47UH		R6031	1-216-073-00	RES,CHIP 10K 5% 1/10W	
L6009	1-412-523-41	INDUCTOR 6.8UH		R6033	$\Delta$ 1-220-886-61	FUSIBLE 0.1 10% 1W	F
				R6034	1-216-113-00	RES,CHIP 470K 5% 1/10W	
				R6035	1-216-049-00	RES,CHIP 1K 5% 1/10W	

KP-EF41HK2/ME2/MN2/SN2, EF48HK2/ME2/MN2/SN2,  
EF53HK2/ME2/MN2/SN2 RM-871



The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK		REF. NO.	PART NO.	DESCRIPTION			REMARK
R6036	1-216-073-00	RES,CHIP	10K	5%	1/10W			* A-1331-833-A	CG MOUNT			
R6037	1-216-065-00	RES,CHIP	4.7K	5%	1/10W				*****			
R6038	1-216-295-00	SHORT	0									
R6039	1-216-073-00	RES,CHIP	10K	5%	1/10W							
R6040	1-216-073-00	RES,CHIP	10K	5%	1/10W							
									<CAPACITOR>			
R6041	1-249-397-11	CARBON	22	5%	1/4W	F	C733	1-161-754-00	CERAMIC	0.001MF	10%	2KV
R6042	1-249-397-11	CARBON	22	5%	1/4W	F	C734	1-102-114-00	CERAMIC	470PF	10%	50V
R6043	1-249-425-11	CARBON	4.7K	5%	1/4W	F	C735	1-161-830-00	CERAMIC	0.0047MF		500V
R6044	1-249-425-11	CARBON	4.7K	5%	1/4W	F	C736	1-162-115-00	CERAMIC	330PF	10%	2KV
R6045	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W		C737	1-107-662-11	ELECT	22MF	20%	250V
R6046	1-216-081-00	RES,CHIP	22K	5%	1/10W		C738	1-101-880-00	CERAMIC	47PF	5%	50V
R6047	1-249-437-11	CARBON	47K	5%	1/4W		C739	1-104-664-11	ELECT	47MF	20%	25V
R6048	1-216-065-00	RES,CHIP	4.7K	5%	1/10W		C740	1-102-114-00	CERAMIC	470PF	10%	50V
R6049	1-216-073-00	RES,CHIP	10K	5%	1/10W							
R6050	1-216-049-91	RES,CHIP	1K	5%	1/10W							
									<CONNECTOR>			
R6051	1-216-674-11	METAL CHIP	9.1K	0.50%	1/10W							
R6052	1-216-049-00	RES,CHIP	1K	5%	1/10W		CN731	1-695-915-11	TAB (CONTACT)			
R6053	1-249-417-11	CARBON	1K	5%	1/4W		CN732	* 1-564-508-11	PLUG, CONNECTOR 5P			
R6054	1-216-049-00	RES,CHIP	1K	5%	1/10W		CN733	* 1-564-511-11	PLUG, CONNECTOR 8P			
R6055	1-216-065-00	RES,CHIP	4.7K	5%	1/10W		CN734	* 1-508-784-00	PIN, CONNECTOR (5mm PITCH) 1P			
							CN735	△ 1-251-182-31	SOCKET, PICTURE TUBE			
R6056	1-216-073-00	RES,CHIP	10K	5%	1/10W							
R6057	1-216-073-00	RES,CHIP	10K	5%	1/10W		CN736	* 1-564-512-11	PLUG, CONNECTOR 9P			
R6058	1-216-073-00	RES,CHIP	10K	5%	1/10W		CN737	* 1-564-512-11	PLUG, CONNECTOR 9P			
R6059	1-216-065-00	RES,CHIP	4.7K	5%	1/10W							
R6060	1-249-413-11	CARBON	470	5%	1/4W	F						
									<DIODE>			
R6061	1-215-477-00	METAL	220K	1%	1/4W							
R6062	1-249-417-11	CARBON	1K	5%	1/4W	F	D731	8-719-991-33	DIODE 1SS133T-77			
R6063	1-249-397-11	CARBON	22	5%	1/4W	F	D732	8-719-991-33	DIODE 1SS133T-77			
R6064	1-249-397-11	CARBON	22	5%	1/4W	F	D733	8-719-991-33	DIODE 1SS133T-77			
R6065	1-249-441-11	CARBON	100K	5%	1/4W		D735	8-719-991-33	DIODE 1SS133T-77			
							D736	8-719-991-33	DIODE 1SS133T-77			
R6066	1-216-366-00	METAL OXIDE	0.56	5%	2W	F						
R6067	1-249-425-11	CARBON	4.7K	5%	1/4W	F						
R6068	1-249-425-11	CARBON	4.7K	5%	1/4W	F						
R6069	1-215-477-00	METAL	220K	1%	1/4W				<COIL>			
R6070	1-249-417-11	CARBON	1K	5%	1/4W	F	L731	1-408-623-31	INDUCTOR 470UH			
							L732	1-408-619-31	INDUCTOR 220UH			
R6071	1-215-453-00	METAL	22K	1%	1/4W							
R6072	1-215-476-00	METAL	200K	1%	1/4W							
R6073	1-216-041-00	RES,CHIP	470	5%	1/10W				<TRANSISTOR>			
R6075	1-216-358-11	METAL OXIDE	5.6	5%	1W	F						
R6079	1-249-377-11	CARBON	0.47	5%	1/4W	F	Q731	8-729-200-17	TRANSISTOR 2SA1091-O			
							Q732	8-729-045-56	TRANSISTOR 2SC2611-15			
R6080	1-249-377-11	CARBON	0.47	5%	1/4W	F	Q733	8-729-119-78	TRANSISTOR 2SC2785-HFE			
R6081	1-249-377-11	CARBON	0.47	5%	1/4W	F						
R6082	1-249-377-11	CARBON	0.47	5%	1/4W	F						
R6083	1-249-377-11	CARBON	0.47	5%	1/4W	F			<RESISTOR>			
R6084	1-249-377-11	CARBON	0.47	5%	1/4W	F						
R6085	△ 1-212-849-61	FUSIBLE	4.7	5%	1/4W	F	R731	1-219-743-11	CARBON	100	5%	1/2W
R6086	1-216-073-00	RES,CHIP	10K	5%	1/10W		R732	1-260-132-11	CARBON	560K	5%	1/2W
R6087	1-216-065-00	RES,CHIP	4.7K	5%	1/10W		R733	1-215-923-00	METAL OXIDE	10K	5%	3W
R6088	1-216-065-00	RES,CHIP	4.7K	5%	1/10W		R735	1-247-807-31	CARBON	100	5%	1/4W
R6089	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		R736	1-249-425-11	CARBON	4.7K	5%	1/4W
R6094	1-216-073-00	RES,CHIP	10K	5%	1/10W		R737	1-260-099-11	CARBON	1K	5%	1/2W
							R738	1-247-408-11	CARBON	180	5%	1/4W
							R739	1-260-133-11	CARBON	680K	5%	1/2W
							R740	1-202-818-00	SOLID	1K	20%	1/2W
							R741	1-249-393-11	CARBON	10	5%	1/4W
		<RELAY>										
RY6003	△ 1-515-999-11	RELAY, POWER					R742	1-247-815-91	CARBON	220	5%	1/4W
							R744	1-247-891-00	CARBON	330K	5%	1/4W
							R745	1-247-843-11	CARBON	3.3K	5%	1/4W
		<TRANSFORMER>					R746	1-202-814-11	SOLID	33K	20%	1/2W
T6002	△ 1-431-207-11	TRANSFORMER, LINE FILTER							<SPARK GAP>			
T6004	△ 1-431-732-12	TRANSFORMER, CONVERTER (SRT)										
T6005	△ 1-429-807-12	TRANSFORMER, CONVERTER (PIT)										
							SG731	1-519-422-11	GAP, SPARK			
							SG732	1-519-422-11	GAP, SPARK			
							SG733	1-519-422-11	GAP, SPARK			

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The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

KP-EF41HK2/ME2/MN2/SN2, EF48HK2/ME2/MN2/SN2, EF53HK2/ME2/MN2/SN2 RM-871

CB CR

REF. NO.	PART NO.	DESCRIPTION	REMARK			
	* A-1331-834-A	CB MOUNT *****				
<CAPACITOR>						
C762	1-126-964-11	ELECT	10MF	20%	50V	
C763	1-161-754-00	CERAMIC	0.001MF	10%	2KV	
C764	1-102-112-00	CERAMIC	330PF	10%	50V	
C765	1-161-830-00	CERAMIC	0.0047MF	500V		
C766	1-162-115-00	CERAMIC	330PF	10%	2KV	
C767	1-107-662-11	ELECT	22MF	20%	250V	
C768	1-101-880-00	CERAMIC	47PF	5%	50V	
C769	1-104-664-11	ELECT	47MF	20%	25V	
C770	1-102-114-00	CERAMIC	470PF	10%	50V	
<CONNECTOR>						
CN761	1-695-915-11	TAB (CONTACT)				
CN762	* 1-564-508-11	PLUG, CONNECTOR 5P				
CN763	* 1-508-784-00	PIN, CONNECTOR (5mm PITCH) 1P				
CN764	△ 1-251-182-31	SOCKET, PICTURE TUBE				
CN765	* 1-564-512-11	PLUG, CONNECTOR 9P				
CN766	* 1-564-513-11	PLUG, CONNECTOR 10P				
<DIODE>						
D761	8-719-991-33	DIODE 1SS133T-77				
D762	8-719-991-33	DIODE 1SS133T-77				
D763	8-719-991-33	DIODE 1SS133T-77				
D765	8-719-991-33	DIODE 1SS133T-77				
D766	8-719-991-33	DIODE 1SS133T-77				
<COIL>						
L761	1-408-623-31	INDUCTOR 470UH				
L762	1-408-619-31	INDUCTOR 220UH				
<TRANSISTOR>						
Q761	8-729-200-17	TRANSISTOR 2SA1091-O				
Q762	8-729-045-56	TRANSISTOR 2SC2611-15				
Q763	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q764	8-729-119-76	TRANSISTOR 2SA1175-HFE				
<RESISTOR>						
R761	1-219-743-11	CARBON	100	5%	1/2W	
R762	1-260-132-11	CARBON	560K	5%	1/2W	
R763	1-215-923-00	METAL OXIDE	10K	5%	3W	
R765	1-247-807-31	CARBON	100	5%	1/4W	
R766	1-260-099-11	CARBON	1K	5%	1/2W	
R767	1-249-425-11	CARBON	4.7K	5%	1/4W	
R768	1-260-133-11	CARBON	680K	5%	1/2W	
R769	1-202-818-00	SOLID	1K	20%	1/2W	
R770	1-247-815-91	CARBON	220	5%	1/4W	
R771	1-219-743-11	CARBON	100	5%	1/2W	
R772	1-249-393-11	CARBON	10	5%	1/4W	
R773	1-249-413-11	CARBON	470	5%	1/4W	
R774	1-247-895-91	CARBON	470K	5%	1/4W	
R775	1-249-427-11	CARBON	6.8K	5%	1/4W	
R776	1-249-437-11	CARBON	47K	5%	1/4W	
R777	1-249-427-11	CARBON	6.8K	5%	1/4W	
R778	1-202-814-11	SOLID	33K	20%	1/2W	
R779	1-247-815-91	CARBON	220	5%	1/4W	
<SPARK GAP>						
SG761	1-519-422-11	GAP, SPARK				

REF. NO.	PART NO.	DESCRIPTION	REMARK			
SG762	1-519-422-11	GAP, SPARK				
SG763	1-519-422-11	GAP, SPARK				
*****						
* A-1331-835-A CR MOUNT						
*****						
<CAPACITOR>						
C702	1-102-113-00	CERAMIC	390PF	10%	50V	
C703	1-104-664-11	ELECT	47MF	20%	25V	
C705	△ 1-161-754-00	CERAMIC	0.001MF	10%	2KV	
C708	1-101-880-00	CERAMIC	47PF	5%	50V	
C709	1-162-115-00	CERAMIC	330PF	10%	2KV	
C710	1-102-114-00	CERAMIC	470PF	10%	50V	
C712	1-107-662-11	ELECT	22MF	20%	250V	
C713	1-104-664-11	ELECT	47MF	20%	25V	
<CONNECTOR>						
CN701	1-695-915-11	TAB (CONTACT)				
CN702	* 1-564-511-11	PLUG, CONNECTOR 8P				
CN703	* 1-564-510-11	PLUG, CONNECTOR 7P				
CN704	* 1-508-784-00	PIN, CONNECTOR (5mm PITCH) 1P				
CN705	△ 1-251-182-31	SOCKET, PICTURE TUBE				
CN706	* 1-564-512-11	PLUG, CONNECTOR 9P				
<DIODE>						
D701	8-719-991-33	DIODE 1SS133T-77				
D704	8-719-991-33	DIODE 1SS133T-77				
D705	8-719-991-33	DIODE 1SS133T-77				
D706	8-719-991-33	DIODE 1SS133T-77				
D708	8-719-991-33	DIODE 1SS133T-77				
D709	8-719-109-84	DIODE RD5.1ESB1				
<COIL>						
L701	1-410-682-31	INDUCTOR 470UH				
L702	1-408-619-31	INDUCTOR 220UH				
<TRANSISTOR>						
Q701	8-729-200-17	TRANSISTOR 2SA1091-O				
Q703	8-729-045-56	TRANSISTOR 2SC2611-15				
Q704	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q705	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q706	8-729-119-76	TRANSISTOR 2SA1175-HFE				
<RESISTOR>						
R701	1-219-743-11	CARBON	100	5%	1/2W	
R704	1-260-132-11	CARBON	560K	5%	1/2W	
R706	1-249-425-11	CARBON	4.7K	5%	1/4W	
R707	1-247-807-31	CARBON	100	5%	1/4W	
R708	1-249-411-11	CARBON	330	5%	1/4W	
R709	1-260-099-11	CARBON	1K	5%	1/2W	
R710	1-249-393-11	CARBON	10	5%	1/4W	
R711	1-215-923-00	METAL OXIDE	10K	5%	3W	F
R714	1-202-818-00	SOLID	1K	20%	1/2W	
R715	1-260-133-11	CARBON	680K	5%	1/2W	
R716	1-247-815-91	CARBON	220	5%	1/4W	
R717	1-249-435-11	CARBON	33K	5%	1/4W	
R718	1-249-437-11	CARBON	47K	5%	1/4W	
R719	1-219-743-11	CARBON	100	5%	1/2W	
R720	1-249-425-11	CARBON	4.7K	5%	1/4W	

KP-EF41HK2/ME2/MN2/SN2, EF48HK2/ME2/MN2/SN2,  
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**CR** **V2** **D**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R721	1-202-814-11	SOLID 33K 20%	1/2W	Q3509	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
R722	1-247-863-91	CARBON 22K 5%	1/4W	Q3510	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
R723	1-249-437-11	CARBON 47K 5%	1/4W				
<SPARK GAP>				<RESISTOR>			
SG701	1-519-422-11	GAP, SPARK		R3501	1-216-295-00	SHORT 0	
SG702	1-519-422-11	GAP, SPARK		R3504	1-216-295-00	SHORT 0	
SG703	1-519-422-11	GAP, SPARK		R3507	1-216-295-00	SHORT 0	
				R3508	1-216-295-00	SHORT 0	
				R3509	1-216-295-00	SHORT 0	
*****				R3511	1-216-025-00	RES,CHIP 100	5% 1/10W
* A-1342-428-A V2 MOUNT				R3512	1-216-295-00	SHORT 0	
*****				R3514	1-216-025-00	RES,CHIP 100	5% 1/10W
				R3515	1-216-073-00	RES,CHIP 10K	5% 1/10W
				R3517	1-216-295-00	SHORT 0	
<CAPACITOR>				R3518	1-216-295-00	SHORT 0	
C3506	1-163-038-00	CERAMIC CHIP 0.1MF	25V	R3519	1-216-295-00	SHORT 0	
C3507	1-126-933-11	ELECT 100MF 20%	16V	R3522	1-216-295-00	SHORT 0	
C3509	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V	R3526	1-216-295-00	SHORT 0	
C3510	1-164-505-11	CERAMIC CHIP 2.2MF	16V	R3527	1-216-065-00	RES,CHIP 4.7K	5% 1/10W
C3511	1-126-963-11	ELECT 4.7MF 20%	50V	R3528	1-216-065-00	RES,CHIP 4.7K	5% 1/10W
C3512	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V	R3529	1-216-049-00	RES,CHIP 1K	5% 1/10W
C3513	1-163-239-11	CERAMIC CHIP 33PF 5%	50V	R3533	1-216-025-00	RES,CHIP 100	5% 1/10W
C3514	1-163-239-11	CERAMIC CHIP 33PF 5%	50V	R3535	1-216-295-00	SHORT 0	
C3515	1-109-982-11	CERAMIC CHIP 1MF 10%	10V	R3539	1-216-025-00	RES,CHIP 100	5% 1/10W
C3517	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	R3540	1-216-295-00	SHORT 0	
C3519	1-163-113-00	CERAMIC CHIP 68PF 5%	50V	R3542	1-216-049-00	RES,CHIP 1K	5% 1/10W
C3522	1-104-664-11	ELECT 47MF 20%	16V	R3544	1-216-295-00	SHORT 0	
C3524	1-163-038-00	CERAMIC CHIP 0.1MF	25V	R3546	1-216-025-00	RES,CHIP 100	5% 1/10W
C3525	1-126-933-11	ELECT 100MF 20%	16V	R3547	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
C3530	1-163-038-00	CERAMIC CHIP 0.1MF	25V	R3548	1-216-049-00	RES,CHIP 1K	5% 1/10W
C3532	1-163-038-00	CERAMIC CHIP 0.1MF	25V	R3549	1-216-049-00	RES,CHIP 1K	5% 1/10W
C3538	1-163-233-11	CERAMIC CHIP 18PF 5%	50V	R3550	1-216-041-00	RES,CHIP 470	5% 1/10W
C3539	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V	R3551	1-216-025-00	RES,CHIP 100	5% 1/10W
				R3552	1-216-025-00	RES,CHIP 100	5% 1/10W
<CONNECTOR>				R3554	1-216-083-00	RES,CHIP 27K	5% 1/10W
CN3501	* 1-564-508-11	PLUG, CONNECTOR 5P		R3555	1-216-049-00	RES,CHIP 1K	5% 1/10W
CN3502	* 1-564-515-11	PLUG, CONNECTOR 12P		R3556	1-216-041-00	RES,CHIP 470	5% 1/10W
				R3557	1-216-295-00	SHORT 0	
				R3558	1-216-025-00	RES,CHIP 100	5% 1/10W
<DIODE>				R3559	1-216-049-00	RES,CHIP 1K	5% 1/10W
D3502	8-719-914-44	DIODE DAP202K		R3560	1-216-041-00	RES,CHIP 470	5% 1/10W
D3503	8-719-105-46	DIODE RD3.3M-B2		R3563	1-216-049-00	RES,CHIP 1K	5% 1/10W
				R3571	1-216-049-00	RES,CHIP 1K	5% 1/10W
<FERRITE BEAD>				<CRYSTAL>			
FB3501	1-410-682-31	INDUCTOR 470UH		X3501	1-578-774-11	VIBRATOR, CRYSTAL	
FB3502	1-410-397-21	FERRITE 1.1UH					
FB3503	1-410-397-21	FERRITE 1.1UH					
FB3504	1-410-397-21	FERRITE 1.1UH					
FB3505	1-410-397-21	FERRITE 1.1UH					
<IC>				*****			
IC3501	8-759-476-87	IC SAA5261		* A-1346-763-A D COMPL			
				*****			
				4-066-101-01 SPACER, INSULATING			
				4-070-912-01 HEAT SINK, V OUT			
				4-382-854-11 SCREW (M3X10), P, SW (+)			
<CHIP CONDUCTOR>				<CAPACITOR>			
JR3501	1-216-295-00	SHORT 0		C1501	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
				C1503	1-137-399-11	FILM 0.1MF	5% 100V
				C1504	1-164-690-91	CERAMIC CHIP 0.0022MF	5% 50V
				C1506	1-126-969-11	ELECT 220MF	20% 50V
				C1507	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
Q3501	8-729-230-49	TRANSISTOR 2SC2712-YG		C1508	1-137-401-11	FILM 0.22MF	10% 100V
Q3502	8-729-120-28	TRANSISTOR 2SC1623-L5L6		C1509	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
Q3506	8-729-901-00	TRANSISTOR DTC124EK					
Q3507	8-729-120-28	TRANSISTOR 2SC1623-L5L6					



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1510	1-126-972-11	ELECT	1000MF 20% 50V	C1721	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1511	1-126-972-11	ELECT	1000MF 20% 50V	C1723	1-163-235-11	CERAMIC CHIP 22PF 5% 50V	
C1512	1-126-960-11	ELECT	1MF 20% 50V	C1724	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C1513	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C1725	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C1514	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C1726	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C1516	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V	C1727	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C1517	1-126-964-11	ELECT	10MF 20% 50V	C1802	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1518	1-126-933-11	ELECT	100MF 20% 16V	C1803	1-126-935-11	ELECT 470MF 20% 16V	
C1519	1-126-933-11	ELECT	100MF 20% 16V	C1804	1-126-964-11	ELECT 10MF 20% 50V	
C1520	1-126-964-11	ELECT	10MF 20% 50V	C1805	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1521	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C1806	1-104-665-11	ELECT 100MF 20% 25V	
C1523	1-163-243-11	CERAMIC CHIP	47PF 5% 50V	C1807	1-126-964-11	ELECT 10MF 20% 50V	
C1524	1-136-177-00	FILM	1MF 5% 50V	C1808	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1525	1-104-665-11	ELECT	100MF 20% 25V	C1809	1-104-665-11	ELECT 100MF 20% 25V	
C1526	1-104-664-11	ELECT	47MF 20% 25V	C1810	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1527	1-163-145-00	CERAMIC CHIP	0.0015MF 5% 50V	C1811	1-104-665-11	ELECT 100MF 20% 25V	
C1528	1-163-145-00	CERAMIC CHIP	0.0015MF 5% 50V	C1812	1-126-964-11	ELECT 10MF 20% 50V	
C1529	1-164-690-91	CERAMIC CHIP	0.0022MF 5% 50V	C1813	1-104-666-11	ELECT 220MF 20% 25V	
C1530	1-104-664-11	ELECT	47MF 20% 16V	C1814	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C1531	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C1815	1-104-666-11	ELECT 220MF 20% 25V	
C1532	1-126-960-11	ELECT	1MF 20% 50V	C1816	1-126-964-11	ELECT 10MF 20% 50V	
C1601	1-163-009-11	CERAMIC CHIP	0.001MF 10% 50V	C1817	1-126-964-11	ELECT 10MF 20% 50V	
C1602	1-163-009-11	CERAMIC CHIP	0.001MF 10% 50V	C1818	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C1603	1-130-495-00	FILM	0.1MF 5% 50V	C1819	1-163-133-00	CERAMIC CHIP 470PF 5% 50V	
C1604	1-130-495-00	FILM	0.1MF 5% 50V	C1820	1-163-133-00	CERAMIC CHIP 470PF 5% 50V	
C1605	1-107-715-11	ELECT	22MF 20% 50V	C1821	1-126-964-11	ELECT 10MF 20% 50V	
C1606	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C1822	1-164-005-11	CERAMIC CHIP 0.47MF 25V	
C1607	1-137-370-11	FILM	0.01MF 5% 50V	C1823	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C1610	1-126-960-11	ELECT	1MF 20% 50V	C1824	1-164-005-11	CERAMIC CHIP 0.47MF 25V	
C1611	1-126-960-11	ELECT	1MF 20% 50V	C1825	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C1612	1-126-960-11	ELECT	1MF 20% 50V	C1826	1-104-665-11	ELECT 100MF 20% 25V	
C1613	1-126-967-11	ELECT	47MF 20% 50V	C1827	1-104-664-11	ELECT 47MF 20% 25V	
C1614	1-126-967-11	ELECT	47MF 20% 50V	C1828	1-104-664-11	ELECT 47MF 20% 25V	
C1617	1-130-495-00	FILM	0.1MF 5% 50V	C1829	1-104-664-11	ELECT 47MF 20% 25V	
C1618	1-130-495-00	FILM	0.1MF 5% 50V	C1830	1-126-964-11	ELECT 10MF 20% 50V	
C1619	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V	<CONNECTOR>			
C1621	1-104-665-11	ELECT	100MF 20% 25V	CN1501	* 1-564-506-11	PLUG, CONNECTOR 3P	
C1622	1-164-690-91	CERAMIC CHIP	0.0022MF 5% 50V	CN1502	1-695-915-11	TAB (CONTACT)	
C1624	1-130-495-00	FILM	0.1MF 5% 50V	CN1601	* 1-564-508-11	PLUG, CONNECTOR 5P	
C1626	1-130-495-00	FILM	0.1MF 5% 50V	CN1604	* 1-564-507-11	PLUG, CONNECTOR 4P	
C1627	1-164-690-91	CERAMIC CHIP	0.0022MF 5% 50V	CN1605	* 1-508-766-00	PIN, CONNECTOR (5mm PITCH) 4P	
C1628	1-126-964-11	ELECT	10MF 20% 50V	CN1606	* 1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
C1630	1-128-550-21	ELECT	2200MF 20% 50V	CN1701	* 1-564-511-11	PLUG, CONNECTOR 8P	
C1631	1-128-550-21	ELECT	2200MF 20% 50V	CN1702	* 1-564-516-11	PLUG, CONNECTOR 13P	
C1632	1-104-664-11	ELECT	47MF 20% 25V	CN1703	* 1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
C1633	1-104-664-11	ELECT	47MF 20% 25V	CN1705	* 1-564-505-11	PLUG, CONNECTOR 2P	
C1634	1-126-961-11	ELECT	2.2MF 20% 50V	CN1708	* 1-564-510-11	PLUG, CONNECTOR 7P	
C1635	1-104-666-11	ELECT	220MF 20% 25V	CN1801	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P	
C1650	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	CN1802	* 1-764-334-11	PLUG, CONNECTOR 11P	
C1651	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	CN1803	* 1-564-513-11	PLUG, CONNECTOR 10P	
C1701	1-126-964-11	ELECT	10MF 20% 50V	CN1804	* 1-564-508-11	PLUG, CONNECTOR 5P	
C1702	1-126-964-11	ELECT	10MF 20% 50V	CN1805	* 1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
C1703	1-126-964-11	ELECT	10MF 20% 50V	CN1806	* 1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
C1704	1-126-964-11	ELECT	10MF 20% 50V	CN1807	* 1-564-511-11	PLUG, CONNECTOR 8P	
C1705	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	CN1808	* 1-564-510-11	PLUG, CONNECTOR 7P	
C1706	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	<DIODE>			
C1707	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	D1501	8-719-109-89	DIODE RD5.6ESB2	
C1708	1-126-935-11	ELECT	470MF 20% 16V	D1502	8-719-908-03	DIODE GP08D	
C1709	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	D1503	8-719-908-03	DIODE GP08D	
C1710	1-163-243-11	CERAMIC CHIP	47PF 5% 50V	D1504	8-719-991-33	DIODE 1SS133T-77	
C1711	1-163-243-11	CERAMIC CHIP	47PF 5% 50V	D1505	8-719-988-61	DIODE 1SS355TE-17	
C1715	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	D1601	8-719-991-33	DIODE 1SS133T-77	
C1716	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	D1603	8-719-991-33	DIODE 1SS133T-77	
C1717	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V				
C1718	1-126-968-11	ELECT	100MF 20% 50V				
C1719	1-126-968-11	ELECT	100MF 20% 50V				
C1720	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D1604	8-719-991-33	DIODE 1SS133T-77				<COIL>	
D1606	8-719-991-33	DIODE 1SS133T-77					
D1611	8-719-921-86	DIODE MTZJ-13		L1501	1-412-524-11	INDUCTOR 8.2UH	
				L1601	1-402-711-21	INDUCTOR 1UH	
D1612	8-719-991-33	DIODE 1SS133T-77		L1602	1-402-711-21	INDUCTOR 1UH	
D1613	8-719-921-86	DIODE MTZJ-13		L1701	1-408-603-31	INDUCTOR 10UH	
D1614	8-719-991-33	DIODE 1SS133T-77		L1702	1-408-598-31	INDUCTOR 3.9UH	
D1615	8-719-991-33	DIODE 1SS133T-77					
D1616	8-719-991-33	DIODE 1SS133T-77		L1801	1-408-603-31	INDUCTOR 10UH	
D1617	8-719-403-00	DIODE MA3240-TX				<TRANSISTOR>	
D1618	8-719-991-33	DIODE 1SS133T-77					
D1619	8-719-991-33	DIODE 1SS133T-77		Q1501	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D1620	8-719-403-00	DIODE MA3240-TX		Q1502	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR	
D1621	8-719-403-00	DIODE MA3240-TX		Q1503	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D1622	8-719-403-00	DIODE MA3240-TX		Q1505	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D1703	8-719-109-89	DIODE RD5.6ESB2		Q1601	8-729-027-56	TRANSISTOR DTC143TKA-T146	
D1704	8-719-109-89	DIODE RD5.6ESB2					
D1705	8-719-109-84	DIODE RD5.1ESB1		Q1602	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D1706	8-719-109-84	DIODE RD5.1ESB1		Q1603	8-729-027-56	TRANSISTOR DTC143TKA-T146	
D1707	8-719-109-84	DIODE RD5.1ESB1		Q1604	8-729-027-56	TRANSISTOR DTC143TKA-T146	
D1708	8-719-109-84	DIODE RD5.1ESB1		Q1605	8-729-027-56	TRANSISTOR DTC143TKA-T146	
D1709	8-719-109-81	DIODE RD4.7ESB2		Q1607	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D1710	8-719-109-81	DIODE RD4.7ESB2					
D1711	8-719-109-81	DIODE RD4.7ESB2		Q1608	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D1712	8-719-109-81	DIODE RD4.7ESB2		Q1609	1-801-806-11	TRANSISTOR DTC144EKA-T146	
D1801	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q1610	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR	
D1802	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q1611	8-729-027-56	TRANSISTOR DTC143TKA-T146	
D1803	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q1612	8-729-027-56	TRANSISTOR DTC143TKA-T146	
D1804	8-719-923-60	DIODE MTZJ-T-77-9.1A					
D1805	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q1613	8-729-027-56	TRANSISTOR DTC143TKA-T146	
D1806	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q1614	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR	
				Q1615	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q1616	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q1617	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR	
		<IC>		Q1701	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC1501	8-759-192-71	IC STV9379		Q1702	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC1502	8-759-251-31	IC CA0007AM		Q1703	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC1503	8-759-998-98	IC LM358D		Q1704	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC1602	8-759-250-68	IC TDA7264		Q1705	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC1603	8-759-502-21	IC TDA2822M					
IC1701	8-752-895-09	IC CXP86213-002S		Q1706	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC1702	8-759-527-76	IC M24C08-MN6T		Q1707	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC1703	8-759-100-96	IC uPC4558G2		Q1708	8-729-027-38	TRANSISTOR DTA144EKA-T146	
IC1704	8-759-100-96	IC uPC4558G2		Q1709	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC1706	8-759-352-91	IC PST9143NL		Q1710	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC1801	8-759-144-82	IC uPC2405HF					
IC1802	8-759-095-63	IC PQ09RF2		Q1711	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC1803	8-759-231-58	IC TA7812S		Q1801	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC1804	8-759-069-28	IC PQ05RF11		Q1802	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC1805	8-759-100-96	IC uPC4558G2		Q1803	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q1804	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<JACK>					
J1601	1-784-653-11	JACK, PHONO 2P (AUDIO OUT)		Q1805	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q1806	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q1807	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q1808	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR	
				Q1809	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<CHIP CONDUCTOR>				<RESISTOR>	
JR1502	1-216-295-91	SHORT	0	R1501	1-216-353-00	METAL OXIDE	2.2 5% 1W F
JR1503	1-216-295-91	SHORT	0	R1502	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W
JR1504	1-216-295-91	SHORT	0	R1504	1-216-675-11	METAL CHIP	10K 0.50% 1/10W
JR1505	1-216-295-91	SHORT	0	R1505	1-249-377-11	CARBON	0.47 5% 1/4W F
JR1506	1-216-295-91	SHORT	0	R1506	1-215-888-00	METAL OXIDE	220 5% 2W F
JR1508	1-216-295-91	SHORT	0				
JR1510	1-216-295-91	SHORT	0	R1507	1-216-081-00	RES,CHIP	22K 5% 1/10W
JR1511	1-216-295-91	SHORT	0	R1508	1-249-383-11	CARBON	1.5 5% 1/4W F
JR1512	1-216-295-91	SHORT	0	R1509	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W
JR1513	1-216-295-91	SHORT	0	R1510	1-216-675-11	METAL CHIP	10K 0.50% 1/10W
JR1514	1-216-295-91	SHORT	0	R1511	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
JR1701	1-216-295-91	SHORT	0				
				R1512	1-216-085-00	RES,CHIP	33K 5% 1/10W
				R1513	1-216-049-00	RES,CHIP	1K 5% 1/10W
				R1514	1-216-073-00	RES,CHIP	10K 5% 1/10W
				R1515	1-216-073-00	RES,CHIP	10K 5% 1/10W
				R1516	1-216-073-00	RES,CHIP	10K 5% 1/10W





REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1517	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1702	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1518	1-216-353-00	METAL OXIDE	2.2 5% 1W F	R1703	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1519	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1704	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1520	1-216-089-00	RES,CHIP	47K 5% 1/10W	R1705	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1521	1-216-097-00	RES,CHIP	100K 5% 1/10W	R1706	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1522	1-216-089-91	RES,CHIP	47K 5% 1/10W	R1707	1-216-025-00	RES,CHIP	100 5% 1/10W
R1525	1-216-083-00	RES,CHIP	27K 5% 1/10W	R1708	1-216-025-00	RES,CHIP	100 5% 1/10W
R1526	1-216-083-00	RES,CHIP	27K 5% 1/10W	R1709	1-216-025-00	RES,CHIP	100 5% 1/10W
R1527	1-216-117-00	RES,CHIP	680K 5% 1/10W	R1710	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1528	1-216-117-00	RES,CHIP	680K 5% 1/10W	R1711	1-216-089-00	RES,CHIP	47K 5% 1/10W
R1529	1-216-025-00	RES,CHIP	100 5% 1/10W	R1712	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1530	1-216-097-00	RES,CHIP	100K 5% 1/10W	R1713	1-216-089-00	RES,CHIP	47K 5% 1/10W
R1531	1-216-089-00	RES,CHIP	47K 5% 1/10W	R1714	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1532	1-216-025-00	RES,CHIP	100 5% 1/10W	R1715	1-216-089-00	RES,CHIP	47K 5% 1/10W
R1533	1-249-377-11	CARBON	0.47 5% 1/4W F	R1716	1-216-033-00	RES,CHIP	220 5% 1/10W
R1534	1-216-089-91	RES,CHIP	47K 5% 1/10W	R1717	1-216-089-00	RES,CHIP	47K 5% 1/10W
R1537	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1718	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1538	1-216-083-00	RES,CHIP	27K 5% 1/10W	R1719	1-216-033-00	RES,CHIP	220 5% 1/10W
R1539	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1720	1-216-033-00	RES,CHIP	220 5% 1/10W
R1540	1-216-091-00	RES,CHIP	56K 5% 1/10W	R1721	1-216-033-00	RES,CHIP	220 5% 1/10W
R1541	1-216-091-00	RES,CHIP	56K 5% 1/10W	R1722	1-216-033-00	RES,CHIP	220 5% 1/10W
R1542	1-216-093-91	RES,CHIP	68K 5% 1/10W	R1725	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1543	1-216-093-91	RES,CHIP	68K 5% 1/10W	R1726	1-216-295-00	SHORT	0
R1601	1-216-025-00	RES,CHIP	100 5% 1/10W	R1727	1-216-033-00	RES,CHIP	220 5% 1/10W
R1602	1-216-041-00	RES,CHIP	470 5% 1/10W	R1728	1-216-025-00	RES,CHIP	100 5% 1/10W
R1603	1-216-041-00	RES,CHIP	470 5% 1/10W	R1729	1-216-025-00	RES,CHIP	100 5% 1/10W
R1604	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1730	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1605	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1731	1-216-033-00	RES,CHIP	220 5% 1/10W
R1606	1-249-397-11	CARBON	22 5% 1/4W F	R1732	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1607	1-249-397-11	CARBON	22 5% 1/4W F	R1733	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1608	1-249-425-11	CARBON	4.7K 5% 1/4W F	R1734	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1609	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1735	1-216-089-00	RES,CHIP	47K 5% 1/10W
R1610	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1736	1-216-033-00	RES,CHIP	220 5% 1/10W
R1611	1-249-425-11	CARBON	4.7K 5% 1/4W F	R1737	1-216-033-00	RES,CHIP	220 5% 1/10W
R1614	1-216-357-00	METAL OXIDE	4.7 5% 1W F	R1738	1-216-025-00	RES,CHIP	100 5% 1/10W
R1615	1-216-357-00	METAL OXIDE	4.7 5% 1W F	R1739	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1617	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	R1740	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1618	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1741	1-216-033-00	RES,CHIP	220 5% 1/10W
R1620	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1742	1-216-033-00	RES,CHIP	220 5% 1/10W
R1625	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R1743	1-216-025-00	RES,CHIP	100 5% 1/10W
R1626	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R1744	1-216-033-00	RES,CHIP	220 5% 1/10W
R1629	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1745	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1630	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1746	1-216-025-00	RES,CHIP	100 5% 1/10W
R1631	1-249-389-11	CARBON	4.7 5% 1/4W F	R1747	1-216-025-00	RES,CHIP	100 5% 1/10W
R1632	1-216-089-91	RES,CHIP	47K 5% 1/10W	R1748	1-216-025-00	RES,CHIP	100 5% 1/10W
R1633	1-216-089-91	RES,CHIP	47K 5% 1/10W	R1749	1-216-033-00	RES,CHIP	220 5% 1/10W
R1634	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1750	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1635	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1751	1-216-033-00	RES,CHIP	220 5% 1/10W
R1636	1-216-075-00	RES,CHIP	12K 5% 1/10W	R1752	1-216-025-00	RES,CHIP	100 5% 1/10W
R1637	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1753	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1638	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1754	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1639	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1755	1-216-025-00	RES,CHIP	100 5% 1/10W
R1640	1-216-025-00	RES,CHIP	100 5% 1/10W	R1756	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1641	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1757	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1642	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1758	1-216-025-00	RES,CHIP	100 5% 1/10W
R1643	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1759	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1644	1-216-075-00	RES,CHIP	12K 5% 1/10W	R1760	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1645	1-216-041-00	RES,CHIP	470 5% 1/10W	R1762	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1648	1-249-381-11	CARBON	1 5% 1/4W F	R1763	1-216-666-11	METAL CHIP	4.3K 0.50% 1/10W
R1649	1-216-089-00	RES,CHIP	47K 5% 1/10W	R1764	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1650	1-216-033-00	RES,CHIP	220 5% 1/10W	R1765	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1651	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1766	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1652	1-216-099-00	RES,CHIP	120K 5% 1/10W	R1767	1-216-113-00	RES,CHIP	470K 5% 1/10W
R1653	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1768	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1654	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1769	1-216-115-00	RES,CHIP	560K 5% 1/10W
R1655	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1770	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1656	1-216-295-00	SHORT	0	R1771	1-216-113-00	RES,CHIP	470K 5% 1/10W
R1701	1-216-065-00	RES,CHIP	4.7K 5% 1/10W				

**KP-EF41HK2/ME2/MN2/SN2, EF48HK2/ME2/MN2/SN2,  
EF53HK2/ME2/MN2/SN2 RM-871**



The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R1772	1-216-049-91	RES,CHIP	1K	5%	1/10W			<TERMINAL BOARD>			
R1773	1-216-073-00	RES,CHIP	10K	5%	1/10W						
R1774	1-216-025-00	RES,CHIP	100	5%	1/10W	TB1601	1-694-303-11	TERMINAL, PUSH			
R1775	1-216-115-00	RES,CHIP	560K	5%	1/10W						
R1778	1-216-049-91	RES,CHIP	1K	5%	1/10W			<CRYSTAL>			
R1786	1-216-025-00	RES,CHIP	100	5%	1/10W						
R1787	1-216-025-00	RES,CHIP	100	5%	1/10W	X1701	1-579-125-11	VIBRATOR, CERAMIC			
R1788	1-216-025-00	RES,CHIP	100	5%	1/10W						
R1789	1-216-049-00	RES,CHIP	1K	5%	1/10W						
R1790	1-216-025-00	RES,CHIP	100	5%	1/10W						
*****											
R1791	1-216-025-00	RES,CHIP	100	5%	1/10W						
R1792	1-216-089-00	RES,CHIP	47K	5%	1/10W		* A-1346-764-A	E COMPL (41 inch MODEL)			
R1793	1-216-089-00	RES,CHIP	47K	5%	1/10W			*****			
R1794	1-216-089-00	RES,CHIP	47K	5%	1/10W						
R1795	1-216-089-00	RES,CHIP	47K	5%	1/10W		* A-1346-829-A	E COMPL (48/53 inch MODEL)			
								*****			
R1802	1-215-900-11	METAL OXIDE	22K	5%	2W	F					
R1803	1-216-073-00	RES,CHIP	10K	5%	1/10W		4-382-854-11	SCREW (M3X10), P, SW (+)			
R1804	1-216-113-00	RES,CHIP	470K	5%	1/10W		7-682-952-09	SCREW +PSW 3X16			
R1805	1-216-113-00	RES,CHIP	470K	5%	1/10W						
R1806	1-216-023-00	RES,CHIP	82	5%	1/10W			<CAPACITOR>			
R1807	1-216-059-00	RES,CHIP	2.7K	5%	1/10W						
R1808	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	C502	1-126-959-11	ELECT	0.47MF	20%	50V
R1809	1-216-097-00	RES,CHIP	100K	5%	1/10W	C505	1-130-471-00	FILM	0.001MF	5%	50V
R1810	1-216-023-00	RES,CHIP	82	5%	1/10W	C506	1-126-933-11	ELECT	100MF	20%	16V
R1811	1-216-025-00	RES,CHIP	100	5%	1/10W	C507	1-126-965-11	ELECT	22MF	20%	50V
						C508	1-102-228-00	CERAMIC	470PF	10%	500V
R1812	1-216-025-00	RES,CHIP	100	5%	1/10W						
R1813	1-216-049-00	RES,CHIP	1K	5%	1/10W	C509	1-106-383-00	MYLAR	0.047MF	10%	200V
R1814	1-216-023-00	RES,CHIP	82	5%	1/10W	C511	1-130-475-00	MYLAR	0.0022MF	5%	50V
R1815	1-216-025-00	RES,CHIP	100	5%	1/10W	C512	1-136-479-11	FILM	0.001MF	5%	50V
R1816	1-216-025-00	RES,CHIP	100	5%	1/10W	C513	1-126-965-11	ELECT	22MF	20%	50V
						C514	Δ 1-162-116-91	CERAMIC	680PF	10%	2KV
R1817	1-216-025-00	RES,CHIP	100	5%	1/10W						
R1818	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	C515	Δ 1-125-831-91	FILM	0.033MF	3%	630V
R1819	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	C516	Δ 1-117-648-11	FILM	15000PF	3%	1.2KV
R1820	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	C518	1-130-495-00	FILM	0.1MF	5%	50V
R1821	1-216-025-00	RES,CHIP	100	5%	1/10W	C519	1-106-359-00	MYLAR	0.0047MF	10%	100V
						C520	1-162-116-00	CERAMIC	680PF	10%	2KV
R1822	1-216-089-00	RES,CHIP	47K	5%	1/10W						
R1823	1-216-089-00	RES,CHIP	47K	5%	1/10W	C521	1-162-116-00	CERAMIC	680PF	10%	2KV
R1824	1-216-089-00	RES,CHIP	47K	5%	1/10W	C523	1-115-521-11	FILM	0.82MF	5%	250V
R1825	1-216-089-00	RES,CHIP	47K	5%	1/10W	C524	1-106-359-00	MYLAR	0.0047MF	10%	100V
R1826	1-216-089-00	RES,CHIP	47K	5%	1/10W	C526	1-102-228-00	CERAMIC	470PF	10%	500V
						C527	1-126-970-11	ELECT	330MF	20%	50V
R1827	1-216-089-00	RES,CHIP	47K	5%	1/10W						
R1828	1-216-089-00	RES,CHIP	47K	5%	1/10W	C528	1-107-957-11	ELECT	1MF	20%	250V
R1829	1-216-089-00	RES,CHIP	47K	5%	1/10W	C529	1-109-844-11	FILM	0.68MF	5%	250V
R1830	1-216-073-00	RES,CHIP	10K	5%	1/10W	C530	1-107-648-91	ELECT	100MF	20%	160V
R1831	1-216-063-91	RES,CHIP	3.9K	5%	1/10W	C531	1-126-971-11	ELECT	470MF	20%	50V
						C532	1-126-971-11	ELECT	470MF	20%	50V
R1832	1-216-049-00	RES,CHIP	1K	5%	1/10W						
R1833	1-216-041-00	RES,CHIP	470	5%	1/10W	C533	1-107-655-11	ELECT	47MF	20%	250V
R1834	1-216-049-00	RES,CHIP	1K	5%	1/10W	C535	1-106-387-00	MYLAR	0.068MF	10%	200V
R1835	1-216-049-00	RES,CHIP	1K	5%	1/10W	C536	1-137-374-11	FILM	0.047MF	5%	50V
R1836	1-216-049-00	RES,CHIP	1K	5%	1/10W	C537	1-126-968-11	ELECT	100MF	20%	50V
						C538	1-126-968-11	ELECT	100MF	20%	50V
R1837	1-216-049-00	RES,CHIP	1K	5%	1/10W						
R1838	1-216-041-00	RES,CHIP	470	5%	1/10W	C539	1-162-114-00	CERAMIC	0.0047MF		2KV
R1839	1-216-049-00	RES,CHIP	1K	5%	1/10W	C540	1-137-372-11	FILM	0.022MF	5%	50V
R1840	1-216-049-00	RES,CHIP	1K	5%	1/10W	C541	1-137-374-11	FILM	0.047MF	5%	50V
R1841	1-216-049-00	RES,CHIP	1K	5%	1/10W	C542	1-126-934-11	ELECT	220MF	20%	16V
						C544	1-104-665-11	ELECT	100MF	20%	25V
R1842	1-216-049-00	RES,CHIP	1K	5%	1/10W						
R1843	1-216-041-00	RES,CHIP	470	5%	1/10W	C545	1-104-665-11	ELECT	100MF	20%	25V
R1844	1-216-049-00	RES,CHIP	1K	5%	1/10W	C548	1-102-244-00	CERAMIC	220PF	10%	500V
R1845	1-216-049-00	RES,CHIP	1K	5%	1/10W	C550	1-126-935-11	ELECT	470MF	20%	16V
R1846	1-216-049-00	RES,CHIP	1K	5%	1/10W	C551	1-126-935-11	ELECT	470MF	20%	16V
						C554	1-130-062-91	FILM	0.0056MF	5%	630V
R1847	1-216-049-00	RES,CHIP	1K	5%	1/10W						
R1848	1-216-049-00	RES,CHIP	1K	5%	1/10W	C555	1-126-960-11	ELECT	1MF	20%	50V
R1849	1-216-041-00	RES,CHIP	470	5%	1/10W	C556	1-130-495-00	MYLAR	0.1MF	5%	50V
						C701	1-126-933-11	ELECT	100MF	20%	16V
						C801	1-104-665-11	ELECT	100MF	20%	25V
						C802	1-104-665-11	ELECT	100MF	20%	25V
<RELAY>											
RY1601	1-755-028-11	RELAY				C803	1-126-934-11	ELECT	220MF	20%	16V
RY1602	1-755-028-11	RELAY				C804	1-126-934-11	ELECT	220MF	20%	16V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C805	1-126-934-11	ELECT	220MF 20% 16V	C876	1-102-973-00	CERAMIC 100PF 5% 50V	
C806	1-126-934-11	ELECT	220MF 20% 16V	C877	1-102-973-00	CERAMIC 100PF 5% 50V	
C807	1-137-374-11	FILM	0.047MF 5% 50V				
C808	1-137-374-11	FILM	0.047MF 5% 50V	C880	1-104-664-11	ELECT 47MF 20% 25V	
C809	1-137-374-11	FILM	0.047MF 5% 50V	C881	1-102-973-00	CERAMIC 100PF 5% 50V	
C810	1-137-374-11	FILM	0.047MF 5% 50V	C882	1-102-973-00	CERAMIC 100PF 5% 50V	
C811	1-102-074-00	CERAMIC	0.001MF 10% 50V	C883	1-102-973-00	CERAMIC 100PF 5% 50V	
C812	1-136-169-00	FILM	0.22MF 5% 50V	C884	1-104-665-11	ELECT 100MF 20% 25V	
C813	1-137-374-11	FILM	0.047MF 5% 50V	C885	1-104-664-11	ELECT 47MF 20% 25V	
C815	1-104-665-11	ELECT	100MF 20% 25V	C886	1-102-973-00	CERAMIC 100PF 5% 50V	
C816	1-130-014-00	FILM	470PF 5% 50V	C887	1-102-973-00	CERAMIC 100PF 5% 50V	
C817	1-104-664-11	ELECT	47MF 20% 25V	C888	1-102-973-00	CERAMIC 100PF 5% 50V	
C818	1-126-933-11	ELECT	100MF 20% 16V	C889	1-104-665-11	ELECT 100MF 20% 25V	
C819	1-104-664-11	ELECT	47MF 20% 25V	C897	1-104-665-11	ELECT 100MF 20% 25V	
C820	1-102-129-00	CERAMIC	0.01MF 10% 50V				
C821	1-130-495-00	MYLAR	0.1MF 5% 50V			<CONNECTOR>	
C822	1-107-648-91	ELECT	100MF 20% 160V	CN501	* 1-564-513-11	PLUG, CONNECTOR 10P	
C823	1-104-664-11	ELECT	47MF 20% 25V	CN502	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
C824	1-126-964-11	ELECT	10MF 20% 50V (41 inch)	CN503	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
C825	1-104-665-11	ELECT	100MF 20% 25V	CN504	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
C826	1-136-165-00	FILM	0.1MF 5% 50V	CN505	* 1-506-371-00	PIN, CONNECTOR 2P	
C827	1-126-964-11	ELECT	10MF 20% 50V				
C828	1-102-824-00	CERAMIC	470PF 5% 50V	CN506	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
C829	1-126-959-11	ELECT	0.47MF 20% 50V	CN507	* 1-564-507-11	PLUG, CONNECTOR 4P	
C830	1-102-824-00	CERAMIC	470PF 5% 50V	CN508	1-695-915-11	TAB (CONTACT)	
C831	1-126-960-11	ELECT	1MF 20% 50V	CN651	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
C832	1-126-960-11	ELECT	1MF 20% 50V	CN652	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
C833	1-126-960-11	ELECT	1MF 20% 50V				
C834	1-126-968-11	ELECT	100MF 20% 50V	CN801	* 1-564-507-11	PLUG, CONNECTOR 4P	
C835	1-126-967-11	ELECT	47MF 20% 50V	CN802	* 1-564-507-11	PLUG, CONNECTOR 4P	
C836	1-136-169-00	FILM	0.22MF 5% 50V	CN803	* 1-564-507-11	PLUG, CONNECTOR 4P	
C837	1-126-963-11	ELECT	4.7MF 20% 50V	CN804	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
C838	1-104-665-11	ELECT	100MF 20% 25V	CN805	* 1-508-766-00	PIN, CONNECTOR (5mm PITCH) 4P	
C839	1-137-374-11	FILM	0.047MF 5% 50V	CN806	* 1-508-765-00	PIN, CONNECTOR (5mm PITCH) 3P	
C840	1-104-665-11	ELECT	100MF 20% 25V	CN807	* 1-564-509-11	PLUG, CONNECTOR 6P	
C841	1-137-374-11	FILM	0.047MF 5% 50V	CN808	* 1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P	
C842	1-137-374-11	FILM	0.047MF 5% 50V	CN810	* 1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P	
C844	1-126-933-11	ELECT	100MF 20% 16V			<DIODE>	
C845	1-126-933-11	ELECT	100MF 20% 16V	D501	8-719-991-33	DIODE 1SS133T-77	
C846	1-126-933-11	ELECT	100MF 20% 16V	D502	8-719-991-33	DIODE 1SS133T-77	
C847	1-126-933-11	ELECT	100MF 20% 16V	D503	8-719-991-33	DIODE 1SS133T-77	
C848	1-126-933-11	ELECT	100MF 20% 16V	D504	8-719-921-63	DIODE MTJZ-7.5B	
C849	1-102-973-00	CERAMIC	100PF 5% 50V	D507	8-719-302-43	DIODE ELIZ	
C850	1-102-973-00	CERAMIC	100PF 5% 50V	D508	8-719-900-26	DIODE ERD29-08J	
C851	1-137-374-11	FILM	0.047MF 5% 50V	D509	8-719-945-80	DIODE ERC06-15S	
C852	1-137-374-11	FILM	0.047MF 5% 50V	D510	8-719-991-33	DIODE 1SS133T-77	
C853	1-137-374-11	FILM	0.047MF 5% 50V	D511	8-719-302-43	DIODE ELIZ	
C854	1-126-933-11	ELECT	100MF 20% 16V	D512	8-719-991-33	DIODE 1SS133T-77	
C855	1-102-973-00	CERAMIC	100PF 5% 50V	D513	8-719-302-43	DIODE ELIZ	
C856	1-102-973-00	CERAMIC	100PF 5% 50V	D514	8-719-908-03	DIODE GP08D	
C857	1-126-933-11	ELECT	100MF 20% 16V	D515	8-719-908-03	DIODE GP08D	
C858	1-104-665-11	ELECT	100MF 20% 25V	D517	8-719-018-82	DIODE RGP02-20EL-6394	
C859	1-104-665-11	ELECT	100MF 20% 25V	D519	8-719-991-33	DIODE 1SS133T-77	
C860	1-126-933-11	ELECT	100MF 20% 16V	D520	8-719-302-43	DIODE ELIZ	
C861	1-137-374-11	FILM	0.047MF 5% 50V	D521	8-719-302-43	DIODE ELIZ	
C862	1-137-374-11	FILM	0.047MF 5% 50V	D522	8-719-991-33	DIODE 1SS133T-77 (41 inch)	
C863	1-137-374-11	FILM	0.047MF 5% 50V	D523	8-719-991-33	DIODE 1SS133T-77 (41 inch)	
C864	1-126-933-11	ELECT	100MF 20% 16V	D524	8-719-991-33	DIODE 1SS133T-77	
C865	1-137-366-11	FILM	0.0022MF 5% 50V	D527	8-719-109-85	DIODE RD5.1ESB2	
C866	1-136-177-00	FILM	1MF 5% 50V	D701	8-719-109-63	DIODE RD3.0ESB2	
C867	1-104-664-11	ELECT	47MF 20% 25V	D702	8-719-991-33	DIODE 1SS133T-77	
C868	1-164-096-11	CERAMIC	0.01MF 50V	D820	8-719-109-68	DIODE RD3.6ESB1	
C869	1-130-487-00	MYLAR	0.022MF 5% 50V	D829	8-719-109-84	DIODE RD5.1ESB1	
C870	1-164-096-11	CERAMIC	0.01MF 50V	D835	8-719-109-89	DIODE RD5.6ESB2	
C872	1-126-960-11	ELECT	1MF 20% 50V	D840	8-719-991-33	DIODE 1SS133T-77	
C873	1-126-964-11	ELECT	10MF 20% 50V (41 inch)	D842	8-719-991-33	DIODE 1SS133T-77	
				D845	8-719-991-33	DIODE 1SS133T-77	
				D846	8-719-991-33	DIODE 1SS133T-77	

**KP-EF41HK2/ME2/MN2/SN2, EF48HK2/ME2/MN2/SN2, EF53HK2/ME2/MN2/SN2 RM-871**

**E**

The components identified by **■** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

The components identified by shading and mark **△** are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
<FERRITE BEAD>			
FB501	1-410-397-21	FERRITE 1.1UH	
<IC>			
IC501	8-759-133-90	IC uPC339C	
IC801	8-759-327-51	IC PA0053B	
IC802	8-759-327-51	IC PA0053B	
IC803	8-759-183-37	IC CA0007AD	
IC804	8-759-464-79	IC PM0011AS	
IC805	8-759-711-28	IC NJM2058D	
IC806	8-759-464-79	IC PM0011AS	
IC808	8-759-464-79	IC PM0011AS	
IC809	8-749-014-37	IC STK392-150	
IC810	8-749-014-37	IC STK392-150	
IC811	8-759-981-96	IC RC4560D	
IC812	8-759-701-56	IC NJM78M05FA	
IC813	8-759-701-65	IC NJM79M05FA	
<COIL>			
L502	1-410-478-11	INDUCTOR 47UH	
L503	1-459-111-00	INDUCTOR 10mH	
L505	△ 1-416-637-11	COIL, HORIZONTAL LINEARITY	
L506	1-412-552-11	INDUCTOR 2.2mH	
L801	1-406-979-11	INDUCTOR 220UH	
L802	1-406-979-11	INDUCTOR 220UH	
L803	1-406-665-11	INDUCTOR 100UH	
<NEON LAMP>			
NL501	1-519-108-99	LAMP, NEON	
<IC LINK>			
PS601	△ 1-533-597-31	LINK, IC	
PS602	△ 1-533-597-31	LINK, IC	
PS603	△ 1-533-593-31	LINK, IC	
PS604	△ 1-533-593-31	LINK, IC	
PS605	△ 1-533-593-31	LINK, IC	
PS606	△ 1-533-593-31	LINK, IC	
PS607	△ 1-533-593-31	LINK, IC	
PS608	△ 1-533-593-31	LINK, IC	
<TRANSISTOR>			
Q501	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q502	8-729-044-29	TRANSISTOR 2SD2539(LBSONY-1)	
Q503	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q504	8-729-823-81	TRANSISTOR 2SC4632LS-CB7	
Q505	8-729-038-83	TRANSISTOR 2SK2251-01-F19	
Q506	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q507	8-729-032-61	TRANSISTOR 2SC5022-02	
Q701	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q801	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q802	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q803	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q804	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q805	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q806	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q807	8-729-119-78	TRANSISTOR 2SC2785-HFE (41 inch)	
Q808	8-729-030-02	TRANSISTOR DTC144ESA	
Q809	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q810	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q811	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q812	8-729-119-76	TRANSISTOR 2SA1175-HFE	

REF. NO.	PART NO.	DESCRIPTION	REMARK
<RESISTOR>			
■R1	△	METAL	1% 1/4W
R501	1-249-421-11	CARBON 2.2K	5% 1/4W
R502	1-216-441-21	METAL OXIDE 27K	5% 1W F
R503	1-247-843-11	CARBON 3.3K	5% 1/4W
R504	1-249-419-11	CARBON 1.5K	5% 1/4W
R505	1-247-885-00	CARBON 180K	5% 1/4W
R506	1-247-883-00	CARBON 150K	5% 1/4W
R507	1-249-422-11	CARBON 2.7K	5% 1/4W
R508	1-260-338-51	CARBON 6.8K	5% 1/2W
R509	1-249-437-11	CARBON 47K	5% 1/4W
R510	1-215-918-00	METAL OXIDE 1.5K	5% 3W F
R511	1-215-918-00	METAL OXIDE 1.5K	5% 3W F
R512	1-215-918-00	METAL OXIDE 1.5K	5% 3W F
R513	1-247-843-11	CARBON 3.3K	5% 1/4W
R514	1-215-443-00	METAL 8.2K	1% 1/4W
R516	1-215-473-00	METAL 150K	1% 1/4W
R517	1-215-449-00	METAL 15K	1% 1/4W
R518	1-249-436-11	CARBON 39K	5% 1/4W
R519	1-249-429-11	CARBON 10K	5% 1/4W
R522	1-249-428-11	CARBON 8.2K	5% 1/4W
R523	1-249-437-11	CARBON 47K	5% 1/4W
R524	1-249-425-11	CARBON 4.7K	5% 1/4W
R525	1-249-405-11	CARBON 100	5% 1/4W F
R527	1-249-425-11	CARBON 4.7K	5% 1/4W
R528	1-215-910-00	METAL OXIDE 68	5% 3W F
R529	1-215-449-00	METAL 15K	1% 1/4W
R530	1-249-429-11	CARBON 10K	5% 1/4W
R531	1-260-326-11	CARBON 680	5% 1/2W
R532	1-260-315-71	CARBON 82	5% 1/2W
R533	1-214-912-00	METAL 91K	1% 1/2W
R534	1-215-479-00	METAL 270K	1% 1/4W
R535	1-247-887-00	CARBON 220K	5% 1/4W
R536	1-249-377-11	CARBON 0.47	5% 1/4W F
R537	1-260-336-11	CARBON 4.7K	5% 1/2W
R538	1-249-425-11	CARBON 4.7K	5% 1/4W
R539	1-249-377-11	CARBON 0.47	5% 1/4W F
R540	1-249-379-11	CARBON 0.68	5% 1/4W F
R541	1-247-807-31	CARBON 100	5% 1/4W
R542	1-215-864-00	METAL OXIDE 150	5% 1W F
R543	1-216-349-00	METAL OXIDE 1	5% 1W F
R544	1-215-864-00	METAL OXIDE 150	5% 1W F
R545	1-249-377-11	CARBON 0.47	5% 1/4W F
R546	1-249-377-11	CARBON 0.47	5% 1/4W F
R547	1-247-807-31	CARBON 100	5% 1/4W
R548	1-249-413-11	CARBON 470	5% 1/4W
R549	1-249-429-11	CARBON 10K	5% 1/4W (48/53 inch)
R549	1-249-431-11	CARBON 15K	5% 1/4W (41 inch)
R550	1-247-807-31	CARBON 100	5% 1/4W
R551	1-249-437-11	CARBON 47K	5% 1/4W
R552	1-247-807-31	CARBON 100	5% 1/4W
R553	1-247-881-00	CARBON 120K	5% 1/4W
R554	1-249-405-11	CARBON 100	5% 1/4W F
R555	1-247-807-31	CARBON 100	5% 1/4W
R556	1-260-099-11	CARBON 1K	5% 1/2W
R557	1-216-490-11	METAL OXIDE 39K	5% 3W F
R558	1-216-490-11	METAL OXIDE 39K	5% 3W F
R559	1-216-490-11	METAL OXIDE 39K	5% 3W F
R560	8-719-991-33	DIODE 1SS133T-77	
R562	1-202-838-00	SOLID 100K	10% 1/2W
R563	1-215-447-00	METAL 12K	1% 1/4W
R565	1-247-807-31	CARBON 100	5% 1/4W
R566	1-249-377-11	CARBON 0.47	5% 1/4W F
R567	1-249-377-11	CARBON 0.47	5% 1/4W F
R568	1-247-903-00	CARBON 1M	5% 1/4W
R569	1-216-392-11	METAL OXIDE 1.8	5% 3W F



**E**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R570	1-215-910-00	METAL OXIDE	68 5% 3W F	R841	1-247-815-91	CARBON	220 5% 1/4W
R571	1-249-422-11	CARBON	2.7K 5% 1/4W	R842	1-247-807-31	CARBON	100 5% 1/4W
R572	1-247-895-91	CARBON	470K 5% 1/4W	R843	1-247-807-31	CARBON	100 5% 1/4W
R573	1-249-438-11	CARBON	56K 5% 1/4W	R844	1-247-807-31	CARBON	100 5% 1/4W
R574	1-249-435-11	CARBON	33K 5% 1/4W	R845	1-249-441-11	CARBON	100K 5% 1/4W
R576	1-247-807-31	CARBON	100 5% 1/4W	R846	1-247-807-31	CARBON	100 5% 1/4W
R577	1-249-422-11	CARBON	2.7K 5% 1/4W	R847	1-215-481-00	METAL	330K 1% 1/4W
R578	1-215-473-00	METAL	150K 1% 1/4W	R848	1-215-449-00	METAL	15K 1% 1/4W
			(41 inch)	R850	1-215-481-00	METAL	330K 1% 1/4W
R579	1-247-889-00	CARBON	270K 5% 1/4W	R851	1-247-807-31	CARBON	100 5% 1/4W
R580	1-249-437-11	CARBON	47K 5% 1/4W	R852	1-247-807-31	CARBON	100 5% 1/4W
R581	1-249-437-11	CARBON	47K 5% 1/4W	R853	1-247-887-00	CARBON	220K 5% 1/4W
R583	1-249-428-11	CARBON	8.2K 5% 1/4W	R854	1-249-429-11	CARBON	10K 5% 1/4W
R584	1-249-429-11	CARBON	10K 5% 1/4W	R856	1-247-807-31	CARBON	100 5% 1/4W
R585	1-216-490-11	METAL OXIDE	39K 5% 3W F	R857	1-247-807-31	CARBON	100 5% 1/4W
R586	1-215-892-11	METAL OXIDE	1K 5% 2W F	R858	1-215-455-00	METAL	27K 1% 1/4W
R588	1-247-863-91	CARBON	22K 5% 1/4W	R859	1-215-455-00	METAL	27K 1% 1/4W
R589	1-247-887-00	CARBON	220K 5% 1/4W	R860	1-215-455-00	METAL	27K 1% 1/4W
R591	1-249-425-11	CARBON	4.7K 5% 1/4W	R861	1-215-455-00	METAL	27K 1% 1/4W
R595	1-215-464-00	METAL	62K 1% 1/4W	R862	1-215-455-00	METAL	27K 1% 1/4W
			(41 inch)	R863	1-215-455-00	METAL	27K 1% 1/4W
R596	1-215-473-00	METAL	150K 1% 1/4W	R865	1-249-424-11	CARBON	3.9K 5% 1/4W
			(41 inch)	R866	1-249-437-11	CARBON	47K 5% 1/4W
R597	1-215-464-00	METAL	62K 1% 1/4W				(41 inch)
			(41 inch)	R867	1-215-455-00	METAL	27K 1% 1/4W
R701	1-215-449-00	METAL	15K 1% 1/4W	R868	1-215-443-00	METAL	8.2K 1% 1/4W
R702	1-249-421-11	CARBON	2.2K 5% 1/4W				
R703	1-249-421-11	CARBON	2.2K 5% 1/4W	R869	1-249-425-11	CARBON	4.7K 5% 1/4W
R704	1-215-457-00	METAL	33K 1% 1/4W	R870	1-249-437-11	CARBON	47K 5% 1/4W
							(41 inch)
R705	1-215-457-00	METAL	33K 1% 1/4W	R871	1-249-417-11	CARBON	1K 5% 1/4W
R706	1-215-457-00	METAL	33K 1% 1/4W	R872	1-249-425-11	CARBON	4.7K 5% 1/4W
R801	1-247-807-31	CARBON	100 5% 1/4W	R873	1-247-807-31	CARBON	100 5% 1/4W
R802	1-247-807-31	CARBON	100 5% 1/4W				
R803	1-249-430-11	CARBON	12K 5% 1/4W	R874	1-249-435-11	CARBON	33K 5% 1/4W
				R875	1-249-441-11	CARBON	100K 5% 1/4W
R804	1-249-425-11	CARBON	4.7K 5% 1/4W	R877	1-249-422-11	CARBON	2.7K 5% 1/4W
R805	1-247-807-31	CARBON	100 5% 1/4W				(41 inch)
R806	1-249-429-11	CARBON	10K 5% 1/4W	R878	1-215-469-00	METAL	100K 1% 1/4W
R807	1-247-807-31	CARBON	100 5% 1/4W				(41 inch)
R808	1-249-429-11	CARBON	10K 5% 1/4W	R879	1-215-445-00	METAL	10K 1% 1/4W
R809	1-249-425-11	CARBON	4.7K 5% 1/4W	R881	1-249-408-11	CARBON	180 5% 1/4W
R810	1-247-807-31	CARBON	100 5% 1/4W	R882	1-249-429-11	CARBON	10K 5% 1/4W
R811	1-247-807-31	CARBON	100 5% 1/4W	R883	1-249-429-11	CARBON	10K 5% 1/4W
R813	1-247-863-91	CARBON	22K 5% 1/4W	R884	1-215-445-00	METAL	10K 1% 1/4W
R814	1-247-807-31	CARBON	100 5% 1/4W	R885	1-249-441-11	CARBON	100K 5% 1/4W
R815	1-247-807-31	CARBON	100 5% 1/4W	R886	1-249-428-11	CARBON	8.2K 5% 1/4W
R816	1-247-807-31	CARBON	100 5% 1/4W	R887	1-247-807-31	CARBON	100 5% 1/4W
R817	1-247-807-31	CARBON	100 5% 1/4W	R888	1-247-807-31	CARBON	100 5% 1/4W
R818	1-249-429-11	CARBON	10K 5% 1/4W	R889	1-249-439-11	CARBON	68K 5% 1/4W
R819	1-247-807-31	CARBON	100 5% 1/4W	R890	1-249-441-11	CARBON	100K 5% 1/4W
R820	1-249-437-11	CARBON	47K 5% 1/4W	R891	1-247-843-11	CARBON	3.3K 5% 1/4W
R821	1-249-431-11	CARBON	15K 5% 1/4W	R892	1-249-425-11	CARBON	4.7K 5% 1/4W
R822	1-249-417-11	CARBON	1K 5% 1/4W				(41 inch)
R823	1-249-417-11	CARBON	1K 5% 1/4W	R893	1-249-421-11	CARBON	2.2K 5% 1/4W
R824	1-215-462-00	METAL	51K 1% 1/4W				(41 inch)
				R894	1-215-455-00	METAL	27K 1% 1/4W
R825	1-249-441-11	CARBON	100K 5% 1/4W	R895	1-249-421-11	CARBON	2.2K 5% 1/4W
R826	1-215-462-00	METAL	51K 1% 1/4W				
R827	1-216-474-11	METAL OXIDE	82 5% 3W F	R896	1-249-441-11	CARBON	100K 5% 1/4W
R828	1-249-426-11	CARBON	5.6K 5% 1/4W	R897	1-247-807-31	CARBON	100 5% 1/4W
R829	1-249-426-11	CARBON	5.6K 5% 1/4W	R898	1-247-815-91	CARBON	220 5% 1/4W
				R900	1-216-474-11	METAL OXIDE	82 5% 3W F
R830	1-249-414-11	CARBON	560 5% 1/4W	R901	1-215-449-00	METAL	15K 1% 1/4W
R831	1-249-414-11	CARBON	560 5% 1/4W				
R832	1-249-441-11	CARBON	100K 5% 1/4W	R902	1-215-449-00	METAL	15K 1% 1/4W
R833	1-216-474-11	METAL OXIDE	82 5% 3W F	R903	1-215-421-00	METAL	1K 1% 1/4W
R834	1-249-441-11	CARBON	100K 5% 1/4W	R904	1-214-800-11	METAL	2.2 1% 1/2W
				R905	1-214-800-11	METAL	2.2 1% 1/2W
R835	1-249-441-11	CARBON	100K 5% 1/4W	R906	1-214-800-11	METAL	2.2 1% 1/2W
R836	1-247-807-31	CARBON	100 5% 1/4W				
R837	1-249-441-11	CARBON	100K 5% 1/4W	R908	1-215-445-00	METAL	10K 1% 1/4W
R838	1-249-421-11	CARBON	2.2K 5% 1/4W	R909	1-215-421-00	METAL	1K 1% 1/4W
R839	1-247-807-31	CARBON	100 5% 1/4W	R910	1-215-421-00	METAL	1K 1% 1/4W

**KP-EF41HK2/ME2/MN2/SN2, EF48HK2/ME2/MN2/SN2, EF53HK2/ME2/MN2/SN2**

RM-871

**E H1**

The components identified by shading and mark  $\triangle$  are critical for safety.  
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R911	1-215-461-00	METAL	47K 1% 1/4W	R979	1-249-425-11	CARBON 4.7K 5% 1/4W	
R912	1-215-445-00	METAL	10K 1% 1/4W	R980	1-247-815-91	CARBON 220 5% 1/4W	
R913	1-215-455-00	METAL	27K 1% 1/4W	R981	1-247-815-91	CARBON 220 5% 1/4W	
R914	1-215-455-00	METAL	27K 1% 1/4W	R982	1-215-469-00	METAL 100K 1% 1/4W	
R915	1-215-455-00	METAL	27K 1% 1/4W	R983	1-247-815-91	CARBON 220 5% 1/4W	
R916	1-215-455-00	METAL	27K 1% 1/4W	R984	1-215-445-00	METAL 10K 1% 1/4W	
R917	1-215-455-00	METAL	27K 1% 1/4W	R985	1-249-429-11	CARBON 10K 5% 1/4W	
R918	1-215-455-00	METAL	27K 1% 1/4W	R986	1-215-449-00	METAL 15K 1% 1/4W	
R919	1-249-435-11	CARBON	33K 5% 1/4W	R987	1-249-408-11	CARBON 180 5% 1/4W	
R920	1-214-800-11	METAL	2.2 1% 1/2W	R988	1-249-429-11	CARBON 10K 5% 1/4W	
R921	1-249-429-11	CARBON	10K 5% 1/4W	R989	1-249-425-11	CARBON 4.7K 5% 1/4W	
R922	1-215-445-00	METAL	10K 1% 1/4W	R990	1-249-431-11	CARBON 15K 5% 1/4W	
R923	1-249-425-11	CARBON	4.7K 5% 1/4W	R991	1-249-429-11	CARBON 10K 5% 1/4W	
R924	1-215-445-00	METAL	10K 1% 1/4W	R993	1-249-425-11	CARBON 4.7K 5% 1/4W	
R925	1-249-425-11	CARBON	4.7K 5% 1/4W	R994	1-216-474-11	METAL OXIDE 82 5% 3W	F
R926	1-249-408-11	CARBON	180 5% 1/4W	R997	1-215-445-00	METAL 10K 1% 1/4W	
R927	1-249-429-11	CARBON	10K 5% 1/4W	R998	1-249-425-11	CARBON 4.7K 5% 1/4W	
R928	1-249-429-11	CARBON	10K 5% 1/4W	R999	1-249-425-11	CARBON 4.7K 5% 1/4W	
R929	1-214-800-11	METAL	2.2 1% 1/2W	R1901	1-249-439-11	CARBON 68K 5% 1/4W	
R930	1-214-800-11	METAL	2.2 1% 1/2W	R1904	1-249-425-11	CARBON 4.7K 5% 1/4W	
R931	1-215-445-00	METAL	10K 1% 1/4W			<SPARK GAP>	
R933	1-215-445-00	METAL	10K 1% 1/4W	SG501	1-519-422-11	GAP, SPARK	
R934	1-249-422-11	CARBON	2.7K 5% 1/4W			<TRANSFORMER>	
R935	1-249-429-11	CARBON	10K 5% 1/4W	T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE	
R936	1-249-429-11	CARBON	10K 5% 1/4W	T502	$\triangle$ 1-431-211-11	TRANSFORMER, FERRITE (PMT)	
R937	1-249-436-11	CARBON	39K 5% 1/4W	T504	$\triangle$ 1-457-307-11	FBT ASSY, NX-4007//M3T4	
R938	1-215-421-00	METAL	1K 1% 1/4W			*****	
R939	1-259-878-11	CARBON	1.5M 5% 1/4W			*****	
R940	1-249-441-11	CARBON	100K 5% 1/4W			* A-1372-518-A H1 MOUNT	
R941	1-249-441-11	CARBON	100K 5% 1/4W			*****	
R942	1-249-421-11	CARBON	2.2K 5% 1/4W			<CAPACITOR>	
R943	1-249-441-11	CARBON	100K 5% 1/4W	C3003	1-126-157-11	ELECT 10MF 20% 16V	
R944	1-215-421-00	METAL	1K 1% 1/4W			<CONNECTOR>	
R945	1-249-437-11	CARBON	47K 5% 1/4W	CN3001	* 1-564-519-11	PLUG, CONNECTOR 4P	
R945	1-249-439-11	CARBON	68K 5% 1/4W	CN3002	* 1-564-525-11	PLUG, CONNECTOR 10P	
R946	1-215-421-00	METAL	1K 1% 1/4W	CN3003	* 1-580-690-11	PIN, CONNECTOR (PC BOARD) 4P	
R947	1-249-441-11	CARBON	100K 5% 1/4W	CN3004	* 1-691-292-11	PIN, CONNECTOR (PC BOARD) 3P	
R948	1-247-815-91	CARBON	220 5% 1/4W			<DIODE>	
R949	1-247-807-31	CARBON	100 5% 1/4W	D3002	8-719-992-06	DIODE SLA-580LT3F	
R950	1-247-807-31	CARBON	100 5% 1/4W			<IC>	
R951	1-247-807-31	CARBON	100 5% 1/4W	IC3002	8-742-014-11	HYB IC SBX1981-51	
R952	1-247-807-31	CARBON	100 5% 1/4W			<TRANSISTOR>	
R953	1-249-435-11	CARBON	33K 5% 1/4W	Q3002	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
R954	1-215-433-00	METAL	3.3K 1% 1/4W			<RESISTOR>	
R955	1-215-433-00	METAL	3.3K 1% 1/4W	R3001	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R956	1-249-429-11	CARBON	10K 5% 1/4W	R3002	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R957	1-214-800-11	METAL	2.2 1% 1/2W	R3006	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W	
R958	1-214-800-11	METAL	2.2 1% 1/2W	R3007	1-216-661-11	METAL CHIP 2.7K 0.50% 1/10W	
R959	1-215-433-00	METAL	3.3K 1% 1/4W	R3009	1-216-041-00	RES,CHIP 470 5% 1/10W	
R961	1-249-425-11	CARBON	4.7K 5% 1/4W				
R962	1-214-800-11	METAL	2.2 1% 1/2W				
R963	1-214-800-11	METAL	2.2 1% 1/2W				
R964	1-215-433-00	METAL	3.3K 1% 1/4W				
R965	1-215-433-00	METAL	3.3K 1% 1/4W				
R966	1-247-815-91	CARBON	220 5% 1/4W				
R967	1-215-455-00	METAL	27K 1% 1/4W				
R968	1-215-455-00	METAL	27K 1% 1/4W				
R969	1-215-455-00	METAL	27K 1% 1/4W				
R970	1-215-455-00	METAL	27K 1% 1/4W				
R971	1-215-455-00	METAL	27K 1% 1/4W				
R972	1-215-455-00	METAL	27K 1% 1/4W				
R973	1-214-800-11	METAL	2.2 1% 1/2W				
R974	1-215-455-00	METAL	27K 1% 1/4W				
R975	1-214-800-11	METAL	2.2 1% 1/2W				
R976	1-215-433-00	METAL	3.3K 1% 1/4W				
R978	1-215-443-00	METAL	8.2K 1% 1/4W				

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Replace only with part number specified.

KP-EF41HK2/ME2/MN2/SN2, EF48HK2/ME2/MN2/SN2,  
EF53HK2/ME2/MN2/SN2 RM-871

**H1** **UG** **H2** **ZR**

REF. NO.	PART NO.	DESCRIPTION	REMARK
R3010	1-216-045-00	RES,CHIP 680 5%	1/10W
<SWITCH>			
S3001	1-571-532-21	SWITCH, TACTIL (PROG +)	
S3002	1-571-532-21	SWITCH, TACTIL (PROG -)	
S3003	1-571-532-21	SWITCH, TACTIL (VOL +)	
S3004	1-571-532-21	SWITCH, TACTIL (VOL -)	
S3005	1-571-532-21	SWITCH, TACTIL (TV/VIDEO)	
S3006	$\Delta$ 1-571-433-31	SWITCH, PUSH (AC POWER)	

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\* A-1373-691-A UG MOUNT  
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<CAPACITOR>			
C2901	1-126-933-11	ELECT 100MF	20% 16V
C2902	1-126-964-11	ELECT 10MF	20% 50V
C2903	1-126-964-11	ELECT 10MF	20% 50V
C2904	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C2905	1-126-964-11	ELECT 10MF	20% 50V
C2906	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C2907	1-126-964-11	ELECT 10MF	20% 50V

<CONNECTOR>			
CN2901	* 1-564-521-11	PLUG, CONNECTOR 6P	
CN2902	* 1-564-519-11	PLUG, CONNECTOR 4P	

<DIODE>			
D2901	8-719-977-22	DIODE DTZ9.1	
D2902	8-719-977-22	DIODE DTZ9.1	
D2903	8-719-977-22	DIODE DTZ9.1	
D2904	8-719-977-22	DIODE DTZ9.1	
D2905	8-719-977-22	DIODE DTZ9.1	

<JACK>			
J2901	1-784-654-11	JACK BLOCK, PIN (DVD IN)	

<RESISTOR>			
R2901	1-216-022-00	RES,CHIP 75	5% 1/10W
R2902	1-216-033-00	RES,CHIP 220	5% 1/10W
R2903	1-216-022-00	RES,CHIP 75	5% 1/10W
R2904	1-216-033-00	RES,CHIP 220	5% 1/10W
R2905	1-216-022-00	RES,CHIP 75	5% 1/10W
R2906	1-216-033-00	RES,CHIP 220	5% 1/10W
R2907	1-216-113-00	RES,CHIP 470K	5% 1/10W
R2908	1-216-113-00	RES,CHIP 470K	5% 1/10W

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\* A-1375-177-A H2 COMPL  
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<CAPACITOR>			
C3203	1-126-157-11	ELECT 10MF	20% 16V
C3204	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C3205	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V

REF. NO.	PART NO.	DESCRIPTION	REMARK
<CONNECTOR>			

CN3201	* 1-564-519-11	PLUG, CONNECTOR 4P	
CN3202	* 1-564-526-31	PLUG, CONNECTOR 11P	
CN3204	* 1-564-520-11	PLUG, CONNECTOR 5P	

<JACK>			
J3201	1-784-658-11	TERMINAL BLOCK, S (S-VIDEO IN)	
J3202	1-507-806-00	JACK 1P (HEAD PHONE)	

<COIL>			
L3201	1-408-615-31	INDUCTOR 100UH	
L3202	1-408-615-31	INDUCTOR 100UH	

<TRANSISTOR>			
Q3201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

<RESISTOR>			
R3201	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
R3202	1-216-025-00	RES,CHIP 100	5% 1/10W
R3203	1-216-025-00	RES,CHIP 100	5% 1/10W
R3204	1-216-661-11	METAL CHIP 2.7K	0.50% 1/10W
R3205	1-216-654-11	METAL CHIP 1.3K	0.50% 1/10W

R3206	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R3207	1-216-654-11	METAL CHIP 1.3K	0.50% 1/10W
R3208	1-216-073-00	RES,CHIP 10K	5% 1/10W
R3209	1-216-033-00	RES,CHIP 220	5% 1/10W
R3210	1-216-033-00	RES,CHIP 220	5% 1/10W

R3211	1-216-033-00	RES,CHIP 220	5% 1/10W
R3212	1-216-033-00	RES,CHIP 220	5% 1/10W

<SWITCH>			
S3201	1-571-532-21	SWITCH, TACTIL (MENU)	
S3202	1-571-532-21	SWITCH, TACTIL (MENU +)	
S3203	1-571-532-21	SWITCH, TACTIL (MENU -)	
S3204	1-571-532-21	SWITCH, TACTIL (ENTER)	
S3205	1-571-532-21	SWITCH, TACTIL (AUTO CONVER)	

S3206	1-571-532-21	SWITCH, TACTIL (AUTO PROGR)	
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\* A-1390-876-A ZR MOUNT  
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<CONNECTOR>			
CN1401	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN1403	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN1404	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1405	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	

<CONNECTOR>			
DY1401	$\Delta$ 1-451-455-51	DEFLECTION YOKE (R)	

<RESISTOR>			
R1401	1-249-414-11	CARBON 560	5% 1/4W
R1402	1-249-414-11	CARBON 560	5% 1/4W
R1403	1-216-476-11	METAL OXIDE 180	5% 3W F
R1415	1-216-475-11	METAL OXIDE 120	5% 3W F
R1418	1-216-475-11	METAL OXIDE 120	5% 3W F

KP-EF41HK2/ME2/MN2/SN2, EF48HK2/ME2/MN2/SN2,  
EF53HK2/ME2/MN2/SN2 RM-871



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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
*****				R1440	1-249-414-11	CARBON 560 5%	1/4W F
* A-1390-877-A ZG MOUNT				R1441	1-247-815-91	CARBON 220 5%	1/4W
*****				R1442	1-247-815-91	CARBON 220 5%	1/4W
4-382-854-11 SCREW (M3X10), P, SW (+)				R1443	1-249-377-11	CARBON 0.47 5%	1/4W F
<CAPACITOR>				R1444	1-247-815-91	CARBON 220 5%	1/4W
C1433	1-104-999-11	MYLAR 0.1MF 10%	200V	R1445	1-249-403-11	CARBON 68 5%	1/4W
C1434	1-107-362-11	FILM 0.0047MF 10%	200V	R1448	1-249-417-11	CARBON 1K 5%	1/4W
C1435	1-107-667-11	ELECT 2.2MF 20%	160V	R1449	1-249-403-11	CARBON 68 5%	1/4W
C1436	1-130-471-00	FILM 0.001MF 5%	50V	R1450	1-249-417-11	CARBON 1K 5%	1/4W
C1437	1-130-471-00	FILM 0.001MF 5%	50V	R1451	1-247-815-91	CARBON 220 5%	1/4W
C1438	1-107-362-11	FILM 0.0047MF 10%	200V	R1452	1-249-417-11	CARBON 1K 5%	1/4W
C1439	1-161-830-00	CERAMIC 0.0047MF 500V		R1453	1-249-401-11	CARBON 47 5%	1/4W
C1440	1-104-664-11	ELECT 47MF 20%	25V	R1454	1-260-311-11	CARBON 39 5%	1/2W
C1441	1-104-999-11	MYLAR 0.1MF 10%	200V	R1455	1-249-384-11	CARBON 1.8 5%	1/4W F
C1443	1-126-935-11	ELECT 470MF 20%	16V	R1456	1-216-476-11	METAL OXIDE 180 5%	3W F
C1444	1-107-639-11	ELECT 47MF 20%	160V	R1457	1-249-417-11	CARBON 1K 5%	1/4W F
C1445	1-126-933-11	ELECT 100MF 20%	16V	R1458	1-249-384-11	CARBON 1.8 5%	1/4W F
C1446	1-126-933-11	ELECT 100MF 20%	16V	R1459	1-249-400-11	CARBON 39 5%	1/4W F
C1450	1-130-471-00	FILM 0.001MF 5%	50V	R1461	1-249-414-11	CARBON 560 5%	1/4W
<CONNECTOR>				R1462	1-249-414-11	CARBON 560 5%	1/4W
CN1431	* 1-564-508-11	PLUG, CONNECTOR 5P		R1465	1-216-475-11	METAL OXIDE 120 5%	3W F
CN1432	* 1-564-510-11	PLUG, CONNECTOR 7P		R1468	1-216-475-11	METAL OXIDE 120 5%	3W F
CN1433	* 1-564-507-11	PLUG, CONNECTOR 4P		*****			
CN1434	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P		* A-1390-891-A S MOUNT			
CN1436	1-695-915-11	TAB (CONTACT)		*****			
CN1461	* 1-564-506-11	PLUG, CONNECTOR 3P		<CAPACITOR>			
CN1462	* 1-564-507-11	PLUG, CONNECTOR 4P		C2201	1-104-664-11	ELECT 47MF 20%	16V
CN1464	* 1-564-507-11	PLUG, CONNECTOR 4P		C2224	1-126-933-11	ELECT 100MF 20%	16V
<DIODE>				C2227	1-163-129-00	CERAMIC CHIP 330PF 5%	50V
D1431	△ 8-719-110-88	DIODE RD39ESB2 (G)		C2228	1-126-959-11	ELECT 0.47MF 20%	50V
D1432	8-719-110-88	DIODE RD39ESB2		C2229	1-163-017-00	CERAMIC CHIP 0.0047MF 10%	50V
D1433	8-719-991-33	DIODE 1SS133T-77		C2230	1-163-989-11	CERAMIC CHIP 0.033MF 10%	25V
<CONNECTOR>				C2231	1-164-182-11	CERAMIC CHIP 0.0033MF 10%	50V
DY1431	△ 1-451-455-51	DEFLECTION YOKE (G)		C2232	1-164-222-11	CERAMIC CHIP 0.22MF 25V	
<COIL>				C2233	1-164-222-11	CERAMIC CHIP 0.22MF 25V	
L1431	1-410-478-11	INDUCTOR 47UH		C2234	1-126-960-11	ELECT 1MF 20%	50V
<TRANSISTOR>				C2235	1-126-960-11	ELECT 1MF 20%	50V
Q1431	8-729-017-06	TRANSISTOR 2SC4793		C2236	1-163-129-00	CERAMIC CHIP 330PF 5%	50V
Q1432	8-729-017-05	TRANSISTOR 2SA1837		C2251	1-126-960-11	ELECT 1MF 20%	50V
Q1433	8-729-119-76	TRANSISTOR 2SA1175-HFE		C2252	1-126-960-11	ELECT 1MF 20%	50V
Q1434	8-729-119-78	TRANSISTOR 2SC2785-HFE		C2253	1-164-182-11	CERAMIC CHIP 0.0033MF 10%	50V
Q1435	8-729-119-78	TRANSISTOR 2SC2785-HFE		C2254	1-163-989-11	CERAMIC CHIP 0.033MF 10%	25V
Q1436	8-729-119-78	TRANSISTOR 2SC2785-HFE		C2255	1-126-964-11	ELECT 10MF 20%	50V
<RESISTOR>				C2256	1-163-038-00	CERAMIC CHIP 0.1MF 25V	
R1431	1-249-414-11	CARBON 560 5%	1/4W	C2257	1-126-933-11	ELECT 100MF 20%	16V
R1432	1-249-414-11	CARBON 560 5%	1/4W	C2258	1-164-182-11	CERAMIC CHIP 0.0033MF 10%	50V
R1433	1-249-377-11	CARBON 0.47 5%	1/4W F	C2259	1-163-989-11	CERAMIC CHIP 0.033MF 10%	25V
R1435	1-216-475-11	METAL OXIDE 120 5%	3W F	C2260	1-126-960-11	ELECT 1MF 20%	50V
R1436	1-216-475-11	METAL OXIDE 120 5%	3W F	C2261	1-163-038-00	CERAMIC CHIP 0.1MF 25V	
R1437	1-249-414-11	CARBON 560 5%	1/4W	C2262	1-163-038-00	CERAMIC CHIP 0.1MF 25V	
R1438	1-215-451-00	METAL 18K 1%	1/4W	C2263	1-163-038-00	CERAMIC CHIP 0.1MF 25V	
R1439	1-215-451-00	METAL 18K 1%	1/4W	C2264	1-126-960-11	ELECT 1MF 20%	50V
<CONNECTOR>				<IC>			
				CN2201	* 1-770-748-11	CONNECTOR, BOARD TO BOARD 12P	
				IC2201	8-752-058-68	IC CXA1315M	
				IC2202	8-759-009-06	IC MC14052BF	
				IC2203	8-759-100-96	IC uPC4558G2	



The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

**KP-EF41HK2/ME2/MN2/SN2, EF48HK2/ME2/MN2/SN2, EF53HK2/ME2/MN2/SN2 RM-871**

**S**

REF. NO.	PART NO.	DESCRIPTION	REMARK			
IC2204	8-759-100-96	IC uPC4558G2				
IC2205	8-759-100-96	IC uPC4558G2				
IC2206	8-759-100-96	IC uPC4558G2				
IC2207	8-759-100-96	IC uPC4558G2				
IC2208	8-759-496-02	IC NJM2150D				
IC2211	8-759-009-06	IC MC14052BF				
<TRANSISTOR>						
Q4	1-801-806-11	TRANSISTOR DTC144EKA-T146				
<RESISTOR>						
R2201	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R2202	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R2203	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R2204	1-216-025-00	RES,CHIP	100	5%	1/10W	
R2205	1-216-025-00	RES,CHIP	100	5%	1/10W	
R2206	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R2207	1-216-049-00	RES,CHIP	1K	5%	1/10W	
R2208	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
R2209	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R2210	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R2211	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	
R2212	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	
R2213	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R2214	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R2216	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R2217	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R2218	1-216-083-00	RES,CHIP	27K	5%	1/10W	
R2219	1-216-049-00	RES,CHIP	1K	5%	1/10W	
R2222	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R2223	1-216-083-00	RES,CHIP	27K	5%	1/10W	
R2224	1-216-085-00	RES,CHIP	33K	5%	1/10W	
R2225	1-216-085-00	RES,CHIP	33K	5%	1/10W	
R2226	1-216-295-00	SHORT	0			
R2227	1-216-049-00	RES,CHIP	1K	5%	1/10W	
R2228	1-216-089-00	RES,CHIP	47K	5%	1/10W	
R2230	1-216-075-00	RES,CHIP	12K	5%	1/10W	
R2231	1-216-099-00	RES,CHIP	120K	5%	1/10W	
R2232	1-216-097-00	RES,CHIP	100K	5%	1/10W	
R2233	1-216-089-00	RES,CHIP	47K	5%	1/10W	
R2234	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R2235	1-216-097-00	RES,CHIP	100K	5%	1/10W	
R2236	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R2237	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	
R2238	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R2239	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R2240	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R2241	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R2242	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R2243	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R2244	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R2245	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R2246	1-216-079-00	RES,CHIP	18K	5%	1/10W	
R2247	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R2248	1-216-079-00	RES,CHIP	18K	5%	1/10W	
R2249	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R2250	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R2251	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R2252	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R2253	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	
R2254	1-216-063-91	RES,CHIP	3.9K	5%	1/10W	
R2255	1-216-097-00	RES,CHIP	100K	5%	1/10W	
R2256	1-216-097-00	RES,CHIP	100K	5%	1/10W	
R2257	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R2258	1-216-089-00	RES,CHIP	47K	5%	1/10W	

REF. NO.	PART NO.	DESCRIPTION	REMARK			
R2259	1-216-099-00	RES,CHIP	120K	5%	1/10W	
R2260	1-216-089-00	RES,CHIP	47K	5%	1/10W	
R2261	1-216-077-00	RES,CHIP	15K	5%	1/10W	
R2262	1-216-085-00	RES,CHIP	33K	5%	1/10W	
R2263	1-216-085-00	RES,CHIP	33K	5%	1/10W	
R2264	1-216-083-00	RES,CHIP	27K	5%	1/10W	
R2265	1-216-085-00	RES,CHIP	33K	5%	1/10W	
R2266	1-216-295-00	SHORT	0			
R2267	1-216-049-00	RES,CHIP	1K	5%	1/10W	
R2268	1-216-085-00	RES,CHIP	33K	5%	1/10W	
R2269	1-216-071-00	RES,CHIP	8.2K	5%	1/10W	
R2270	1-216-085-00	RES,CHIP	33K	5%	1/10W	
R2271	1-216-071-00	RES,CHIP	8.2K	5%	1/10W	
R2272	1-216-085-00	RES,CHIP	33K	5%	1/10W	
R2274	1-216-049-00	RES,CHIP	1K	5%	1/10W	
R2275	1-216-049-00	RES,CHIP	1K	5%	1/10W	
R2276	1-216-049-00	RES,CHIP	1K	5%	1/10W	
R2277	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R2281	1-216-049-00	RES,CHIP	1K	5%	1/10W	
R2283	1-216-295-00	SHORT	0			
R2284	1-216-073-00	RES,CHIP	10K	5%	1/10W	
*****						
MISCELLANEOUS						
*****						
$\Delta$ 1-223-925-11 RESISTOR ASSY (HIGH-VOLTAGE)						
$\Delta$ 1-251-372-21 BOOSTER, RF						
$\Delta$ 1-451-455-61 DEFLECTION YOKE (B)						
$\Delta$ 1-452-790-11 NECK ASSY						
$\Delta$ 1-452-909-31 MAGNET ASSY, 4 POLE						
1-505-426-21 SPEAKER (10.6 CM) (41 inch)						
1-528-864-11 BATTERY, SOLAR						
1-529-404-11 SPEAKER (5CM) (48/53 inch)						
1-529-405-11 SPEAKER (16CM) (48/53 inch)						
* 1-555-400-00 CABLE, PIN						
$\Delta$ 1-574-062-61 CORD, POWER (WITH CONNECTOR)						
2.5A/250V (GE/ME MODEL, AUS MODEL 53 inch)						
$\Delta$ 1-574-358-51 CORD, POWER (WITH CONNECTOR)						
(AUS MODEL 41/48 inch)						
$\Delta$ 1-769-609-21 CORD, POWER (WITH CONNECTOR)						
(HK MODEL)						
$\Delta$ 8-598-955-12 BLOCK ASSY, HIGH-VOLTAGE						
$\Delta$ 8-733-570-05 PICTURE TUBE 07MXC2(G)(DIAPHRAGM)						
(48/53 inch)						
$\Delta$ 8-733-572-05 PICTURE TUBE 07MXC3(R)(DIAPHRAGM)						
(48/53 inch)						
$\Delta$ 8-733-575-05 PICTURE TUBE 07MAC3(B)(DIAPHRAGM)						
(48/53 inch)						
$\Delta$ A-1501-259-A PICTURE TUBE MECHASEAL ASSY						
(R), SLIM (41 inch)						
$\Delta$ A-1501-260-A PICTURE TUBE MECHASEAL ASSY						
(G), SLIM (41 inch)						
$\Delta$ A-1501-261-A PICTURE TUBE MECHASEAL ASSY						
(B), SLIM (41 inch)						
*****						

**KP-EF41HK2/ME2/MN2/SN2, EF48HK2/ME2/MN2/SN2,  
EF53HK2/ME2/MN2/SN2 RM-871**

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
ACCESSORIES AND PACKING MATERIALS *****			
	△ 1-569-008-11	ADAPTOR, CONVERSION 2P (GE/ME MODEL)	
	3-861-923-31	MANUAL, INSTRUCTION (ENGLISH,FRENCH,ARABIC,CHINESE,PERUSSIAN)	
	* 4-029-168-01	BAG, PROTECTION (41 inch)	
	* 4-030-895-01	JOINT	
	* 4-041-423-11	SHEET, PROTECTION (41/48 inch)	
	* 4-055-672-01	BAG, PROTECTION (53 inch)	
	* 4-055-673-01	SHEET, PROTECTION (53 inch)	
	* 4-060-976-01	BAG, PROTECTION (48 inch)	
	* 4-065-646-01	CUSHION (UPPER) (ASSY) (41 inch)	
	* 4-065-647-01	CUSHION (LOWER) (ASSY) (41 inch)	
	* 4-065-652-01	BOARD, TOP (41 inch)	
	* 4-065-730-01	TRAY (41 inch)	
	* 4-069-898-01	INDIVIDUAL CARTON (48 inch)	
	* 4-069-899-01	TRAY (48 inch)	
	* 4-069-900-01	BOARD, TOP (48 inch)	
	* 4-069-901-01	BOARD, BOTTOM (48 inch)	
	* 4-069-902-01	CUSHION (UPPER) (ASSY) (48 inch)	
	* 4-069-903-01	CUSHION (LOWER) (ASSY) (48 inch)	
	* 4-069-987-01	CUSHION (UPPER) (ASSY) (53 inch)	
	* 4-069-988-01	CUSHION (LOWER) (ASSY) (53 inch)	
	* 4-069-993-01	INDIVIDUAL CARTON (53 inch)	
	* 4-069-994-01	TRAY (53 inch)	
	* 4-069-995-01	BOARD, TOP (53 inch)	
	* 4-069-996-01	BOARD, BOTTOM (53 inch)	
	* 4-070-211-01	INDIVIDUAL CARTON (41 inch)	
REMOTE COMMANDER *****			
	1-473-978-21	REMOTE COMMANDER (RM-871)	
	4-978-977-01	COVER, BATTERY (FOR RM-871)	